

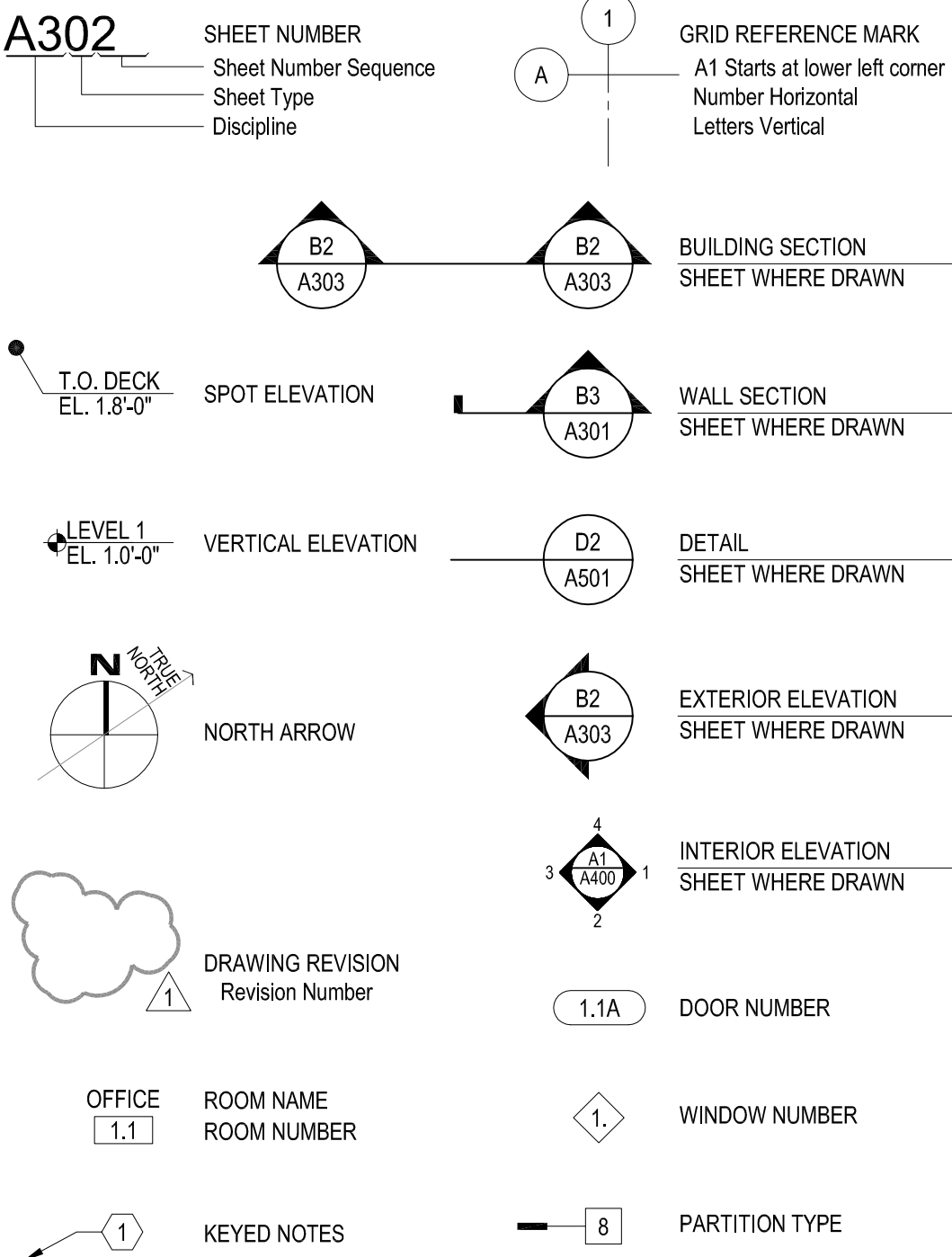
By: R. H. - Apr 20, 2006 - 2:08pm  
K:\S\m\00000000\MSU Lind Lecture Hall Renovation\1 Drawings\G1001.dwg

## ABBREVIATIONS

|        |                       |         |  |          |                        |
|--------|-----------------------|---------|--|----------|------------------------|
| AC     | Air Conditioning      | EIFS    | Exterior Insulation, & Finish System   | OC       | On Center              |
| AFF    | Above Finish Floor    | FT      | Feet                                   | OPP      | Opposite               |
| ALT    | Alternate             | FLR     | Floor                                  | OD       | Outside Diameter       |
| APPROX | Approximate           | FIN FLR | Finish Floor                           | OA       | Overall                |
| ARCH   | Architect             | FE      | Fire Extinguisher                      | OH DR    | Overhead Door          |
| BD     | Board                 | FIN     | Finish                                 | PR       | Pair                   |
| BRG    | Bearing               | FD      | Floor Drain                            | PERP     | Perpendicular          |
| BLKG   | Blocking              | FR      | Frame                                  | P. LAM   | Plastic Laminate       |
| BLDG   | Building              | FTG     | Footing                                | PL GL    | Plate Glass            |
| BOT    | Bottom                | FDTN    | Foundation                             | PLBG     | Plumbing               |
| CLG    | Celling               | GA      | Gage                                   | PREFAB   | Prefabricate           |
| CL     | CenterLine            | GALV    | Galvanize                              | PL       | Property Line          |
| CO     | Cleanout              | GI      | Galvanized Iron                        | REFR     | Refrigeration          |
| CONC   | Concrete              | GLU-LAM | Glue Laminated                         | REINF    | Reinforce              |
| CONF   | Conference            | GYP BD  | Gypsum Board                           | REQD     | Required               |
| CONSTR | Construction          | HDW     | Hardware                               | RD       | Roof Drain             |
| CONT   | Continue              | HC      | Handicap                               | SCHED    | Schedule               |
| CONTR  | Contractor            | HVAC    | Heating Ventilation & Air Conditioning | SIM      | Similar                |
| CJ     | Control Joint         | HORIZ   | Horizontal                             | SPEC     | Specification          |
| COORD  | Coordinate            | HM      | Hollow Metal                           | SQ       | Square                 |
| CORR   | Corridor              | ID      | Inside Diameter                        | STD      | Standard               |
| CSK    | Countersunk           | INT     | Interior                               | STRUCT   | Structural             |
| COMM   | Communication         | ISO     | Isometric                              | SUSP CLG | Suspended Ceiling      |
| CIP    | Cast in Place         | JAN     | Janitor                                | THK      | Thick                  |
| CMU    | Concrete Masonry Unit | KOP     | Knockout Panel                         | T&G      | Tongue and Groove      |
| DEM0   | Demolition            | KD      | Knock Down                             | TO       | Top Of                 |
| DIAG   | Diagonal              | LAB     | Laboratory                             | TOB      | Top of Beam            |
| DIA    | Diameter              | LAV     | Lavatory                               | TOS      | Top of Slab            |
| DN     | Down                  | MAINT   | Maintenance                            | TOW      | Top of PARTITION       |
| DS     | Downspout             | MH      | Manhole                                | XFMR     | Transformer            |
| DWG    | Drawing               | MFR     | Manufacturer                           | TYP      | Typical                |
| ELEC   | Electric              | MO      | Masonry Opening                        | UNO      | Unless Noted           |
| EL     | Elevation             | MECH    | Mechanical                             | VERT     | Vertical               |
| ELEV   | Elevator              | MEZZ    | Mezzanine                              | VEST     | Vestibule              |
| EQ     | Equal                 | MIN     | Minimum                                | VCT      | Vinyl Composition Tile |
| EQUIP  | Equipment             | MISC    | Miscellaneous                          | WC       | Water Closet           |
| EXIST  | Existing              | NOM     | Nominal                                | WH       | Water Heater           |
| EXP    | Expansion             | NIC     | Not In Contract                        | WWF      | Welded Wire Fabric     |
| EJ     | Expansion Joint       | NO      | Number                                 | W/       | With                   |
| EXT    | Exterior              | NTS     | Not to Scale                           |          |                        |
| EWC    | Electric Water Cooler |         |  |          |                        |

## GENERAL SYMBOLS

SEE PLUMBING, MECHANICAL AND ELECTRICAL FOR DISCIPLINE SYMBOLS



## MATERIALS

|          |                   |                  |
|----------|-------------------|------------------|
| EARTH    | BRICK             | GYPSUM BOARD     |
| GRAVEL   | STONE             | EIFS             |
| CONCRETE | PRE-CAST CONCRETE | BATT INSULATION  |
| CMU      | WOOD & BLOCKING   | RIGID INSULATION |

# WEBER STATE UNIVERSITY LIND LECTURE HALL PARTIAL REMODEL

OGDEN, UTAH

UTAH STATE DIVISION OF FACILITIES CONSTRUCTION  
& MANAGEMENT - DFCM PROJECT NO. 04040810

## BID PACKAGE NO. 2: CONSTRUCTION SET APRIL 20, 2006

### APPLICABLE CODES

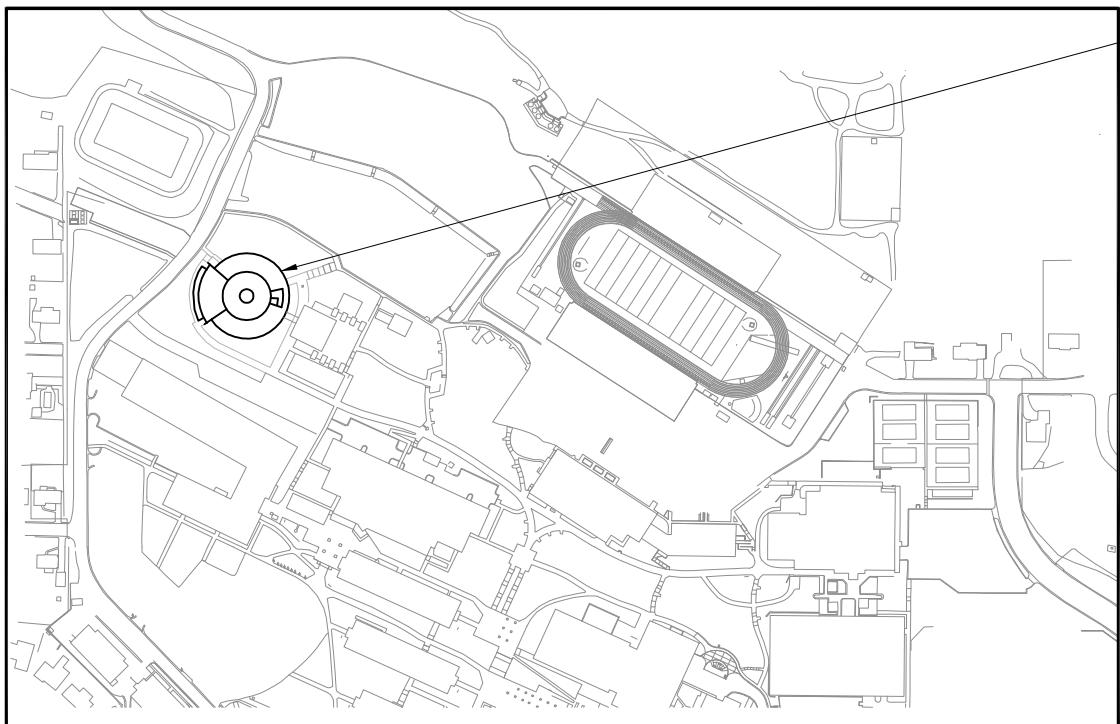
| Year  | Year                      |
|---|---------------------------|
| International Building Code                     | 2003                      |
| International Mechanical Code                   | 2003                      |
| International Plumbing Code                     | 2003                      |
| International Fire Code                         | 2003 NFPA 13 & 14         |
| International Energy Conservation Code          | 2003                      |
| National Electrical Code                        | 2005                      |
| Uniform Building Code for Building Conservation | 1997 (for stair railings) |
| ADA Accessibility Guidelines                    | 1994                      |
| International Fuel & Gas Code                   | 2003                      |

- A. Occupancy and Group  
Change in Use: Yes \_\_\_\_ No X Mixed Occupancy: Yes X No \_\_\_\_
- B. Seismic Design Category: \_\_\_\_ Design Wind Speed: \_\_\_\_ mph
- C. Type of Construction (circle one):  
I I II II III III IV V V  
A B A B A B HT A B
- D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):  
North: 0 South: 0 East: 0 West: 0
- E. Mixed Occupancies: B,A-3  
Nonseparated Uses: N/A
- F. Sprinklers:  
Required: NO Provided: NO Type of Sprinkler System: N/A  
Number of Stories: 3 Building Height: 38'-8"
- H. Actual Area per Floor (square feet): G = 31,882 SF, 1ST = 32,856 SF, 2ND = 10,460 SF  
Tabular Area: with increase = 113,750 S.F.
- J. Area Modifications:  
d) Unlimited Area Building: Yes \_\_\_\_ No X Code Section: \_\_\_\_
- K. Fire Resistance Rating Requirements for Building Elements (hours).

| Element                    | Hours | Assembly Listing | Element                    | Hours | Assembly Listing |
|----------------------------|-------|------------------|----------------------------|-------|------------------|
| Exterior Bearing Walls     | 0     |                  | Floors - Ceiling Floors    | 0     |                  |
| Interior Bearing Walls     | 0     |                  | Roofs - Ceiling Roofs      | 0     |                  |
| Exterior Non-Bearing Walls | 0     |                  | Exterior Doors and Windows | 0     |                  |
| Structural Frame           | 0     |                  | Shaft Enclosures           | 1     | UL-U469          |
| Partitions - Permanent     | 0     |                  | Fire Walls                 |       |                  |
| Fire Barriers              | 0     |                  | Fire Partitions (Corr.)    | 1     | UL-U906          |
|                            |       |                  | Smoke Partitions           | 0     |                  |

- L. Design Occupant Load:  
Exit Width Required: \_\_\_\_ Exit Width Provided: \_\_\_\_
- M. Minimum Number of Required Plumbing Facilities \* : NUMBER OF EXIST. FIXTURES TO REMAIN THE SAME  
a) Water Closets - Required (m) \_\_\_\_ (f) \_\_\_\_ Provided (m) \_\_\_\_ (f) \_\_\_\_  
b) Lavatories - Required (m) \_\_\_\_ (f) \_\_\_\_ Provided (m) \_\_\_\_ (f) \_\_\_\_  
c) Bath Tubs or Showers: \_\_\_\_  
d) Drinking Fountains: \_\_\_\_ Service Sinks: \_\_\_\_

- FOOTNOTES:  
1) In case of conflict with the U.S. Department of Justice Federal Registers' Parts 1 through 11 - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.  
2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:  
a) Performance Based Criteria.  
b) Means or Egress Analysis.  
c) Fire Assembly Locator Sheet.  
d) Exterior and Interior Accessibility Route.  
e) Fire Stopping, Including Tested Design Number.  
3) Renovation work is necessitated by total building hazardous materials abatement (covered in Bid Package No. 1), and partial accessibility upgrade. Only those areas affected by the abatement are being remodeled.



VICINITY MAP  
PROJECT LOCATION: BUILDING 7

### INDEX TO DRAWINGS

GENERAL  
G1001 SHEET INDEX AND GENERAL INFORMATION

#### ARCHITECTURAL

|       |   |
|-------|---|
| AS101 | SITE PLAN                                 |
| AE100 | GROUND FLOOR PLAN                         |
| AE101 | FIRST FLOOR PLAN                          |
| AE102 | SECOND FLOOR PLAN                         |
| AC101 | PARTIAL GROUND & FIRST FLOOR CEILING PLAN |
| AC102 | SECOND FLOOR CEILING PLAN                 |
| AE401 | ENLARGED PLAN & SECTION                   |
| AE402 | ENLARGED STAIRS & SECTION                 |
| AE403 | RESTROOM ELEVATION                        |
| AE501 | CEILING DETAILS                           |
| AE601 | FINISH SCHEDULE                           |

#### MECHANICAL

|       |                                      |
|-------|--------------------------------------|
| MH001 | LEGEND AND ABBREVIATIONS SHEET       |
| MH200 | GROUND FLOOR MECHANICAL REMODEL PLAN |
| MH201 | FIRST FLOOR MECHANICAL REMODEL PLAN  |
| MH202 | SECOND FLOOR MECHANICAL REMODEL PLAN |
| MH501 | MECHANICAL DETAILS                   |
| MH502 | MECHANICAL DETAILS                   |
| MH601 | MECHANICAL SCHEDULES                 |
| PL200 | GROUND FLOOR PLUMBING REMODEL PLAN   |
| PL201 | FIRST FLOOR PLUMBING REMODEL PLAN    |
| PL202 | SECOND FLOOR PLUMBING REMODEL PLAN   |
| PL501 | PLUMBING DETAILS                     |
| PL601 | PLUMBING SCHEDULES                   |

#### ELECTRICAL

|            |   |
|------------|---|
| EE001      | GENERAL NOTES & SCHEDULES                   |
| EE002      | POWER SINGLE LINE DIAGRAM & DETAILS         |
| DEE101-ALT | ALT. FIRST FLOOR DEMOLITION PLAN ELECTRICAL |
| EL100      | GROUND FLOOR PLAN - LIGHTING & ELECTRICAL   |
| EL101      | FIRST FLOOR PLAN LIGHTING                   |
| EL101-ALT  | ALTERNATE FIRST FLOOR PLAN - LIGHTING       |
| EL102      | SECOND FLOOR PLAN LIGHTING                  |
| EP101      | FIRST FLOOR PLAN ELECTRICAL                 |
| EP102      | SECOND FLOOR PLAN ELECTRICAL                |
| ES101      | FIRST FLOOR PLAN SYSTEMS                    |
| ES102      | SECOND FLOOR PLAN SYSTEMS                   |

### CONSULTANTS

#### MECHANICAL

COLVIN ENGINEERING ASSOCIATES, INC.  
244 WEST 300 NORTH, STE. 200  
SALT LAKE CITY, UT 84103  
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#### ELECTRICAL

ELECTRICAL CONSULTING ENGINEERS  
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DFCM PROJECT NO. 04040810

SEAL

MHTN PROJECT NO. 2005605  
DRAWN BY: RAL CHECKED BY: MS

ISSUED:

| NO. | DATE    | DESCRIPTION    |
|-----|---------|----------------|
| 1   | 4.20.06 | BID PACKAGE #2 |
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REVISIONS:

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## SHEET INDEX AND GENERAL INFORMATION

### CONSTRUCTION SET

SHEET NUMBER

G1001

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K3S001020605\MSU Lind Lecture Hall Remodel\1 Drawings\AS101.dwg

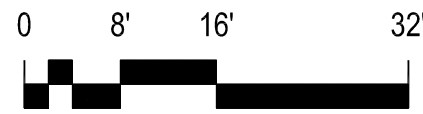
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C

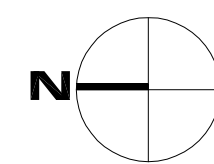
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A

# SITE PLAN



SCALE: 1/16" = 1'-0"



EDVALSON STREET

PLANETARIUM

LIND LECTURE HALL

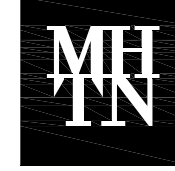
SCIENCE LAB  
BUILDING

PARKING

TECHNICAL EDUCATION  
BUILDING

## GENERAL NOTES:

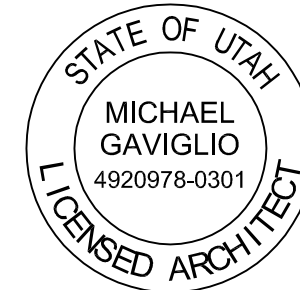
1. ALL CONSTRUCTION OPERATIONS SHALL MINIMIZE DAMAGE TO THE EXISTING SITE AND UNDERGROUND IMPROVEMENTS.
2. ALL EXISTING SITE IMPROVEMENTS DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED TO EXISTING CONDITIONS AS PART OF THIS CONTRACT.
3. CONTRACTOR SHALL BE FAMILIAR WITH ALL EXISTING UTILITIES AND BE RESPONSIBLE FOR PROTECTING THE SAME.



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SEAL



MHTN PROJECT NO. 2005605  
DFCM PROJECT NO. 2005605  
DRAWN BY: TML CHECKED BY: MS

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| 1   | 4.20.06 | BID PACKAGE #2 |
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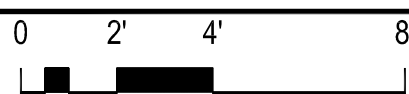
## SITE PLAN

CONSTRUCTION SET

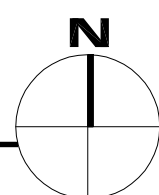
SHEET NUMBER

AS101

## GROUND FLOOR PLAN



SCALE: 3/32" = 1'-0"



## REMODELING NOTES

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK.

2. WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.

3. CUT AND PATCH EXISTING BUILDING CONSTRUCTION AS REQUIRED. CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE ARCHITECT.

4. THE CONTRACTOR SHALL COORDINATE PHASING & TIMING OF THE WORK WITH THE OWNER AND ARCHITECT TO MEET THE OWNERS SCHEDULE.

5. ALL CONSTRUCTION ACTIVITY IS TO BE CONTAINED WITHIN CONSTRUCTION BARRICADES OR FENCES. CONTRACTORS SHALL PROTECT OWNERS EXISTING CONSTRUCTION ADJACENT TO NEW CONSTRUCTION. AFTER WORK OF THIS CONTRACT CLEAN AND RETURN TO ACCEPTABLE CONDITION EXISTING AREAS EFFECTED BY THE WORK TO THE OWNERS SATISFACTION.

6. PAINT ALL EXISTING WALLS WHERE EFFECTED BY DEMOLITION AND NEW CONSTRUCTION.

7. PAINT ALL NEW PIPING AND CONDUIT WHERE EXPOSED.

8. SUPPORT AND PROTECT EXISTING TO REMAIN SIGNAGE, FIRE ALARM SYSTEMS, LIGHTING, ETC. DURING CONSTRUCTION, UNLESS OTHERWISE NOTED.

9. PATCH OPENINGS THAT REMAIN AFTER REMOVAL / DEMOLITION OF MECHANICAL & ELECTRICAL DEVICES, WITH MATERIALS AND FINISH TO MATCH ADJACENT SURFACES.

10. IN-PLACE PROTECTION FOR DISPLAYS & MURALS TO REMAIN DURING CONSTRUCTION. REMOVE AND PATCH/FINISH ANCHORAGE POINTS AND ALL PROTECTIVE COVERINGS.

## GENERAL CONSTRUCTION NOTES

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL FIELD CHECK ALL EXISTING CONSTRUCTION AND SITE CONDITIONS TO VERIFY THAT DIMENSIONS & FINISHES COMPLY WITH THE CONTRACT DOCUMENTS. IF ANY VARIANCE IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PROJECT MANAGER IMMEDIATELY AND IN WRITING. THE ABSENCE OF SUCH NOTIFICATION WILL BE CONSTRUED AS AN ACCEPTANCE OF THE PRIOR WORK AND LATER CLAIMS OF DEFECTS WILL NOT BE CONSIDERED.

2. CONTRACTOR SHALL NOT SCALE DRAWINGS, WRITTEN DIMENSIONS SHALL ALWAYS GOVERN. CONTRACTORS REQUIRING DIMENSIONS NOT NOTED SHALL CONTACT THE ARCHITECT PROJECT MANAGER FOR SUCH INFORMATION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

3. PROTECT ALL EXISTING SURFACES, EQUIPMENT, ETC. THE CONTRACTOR SHALL REPAIR AND MAKE GOOD ANY DAMAGE TO ADJOINING SURFACES OR AREAS NOT PART OF THIS CONTRACT AT NO COST TO THE OWNER.

4. MAINTAIN A SAFE AND CLEAR ACCESS WAY AT ALL TIMES THROUGH WALKWAYS, DRIVE APPROACHES AND MAIN TRAFFIC AREAS.

5. PROVIDE DUST, WEATHER, AND SECURITY PROTECTION TO AREAS STILL IN USE DURING THE CONSTRUCTION PHASE. PROVIDE SECURE BARRICADES BETWEEN ACTIVE PEDESTRIAN WALKWAYS AND CONSTRUCTION ACTIVITIES.

6. DEBRIS SHALL BE REMOVED FROM SITE DAILY OR AS DIRECTED BY THE WSU PROJECT MANAGER.

7. MOST, BUT NOT ALL UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ON THE DRAWINGS. THE CONTRACTOR SHALL INFORM THE WSU PROJECT MANAGER 48 HOURS PRIOR TO ANY ACTIVITIES THAT MIGHT AFFECT THESE UTILITIES. IF DAMAGE TO EXISTING UTILITIES IS CAUSED AS A RESULT OF THE CONTRACTOR'S OPERATIONS, THE UTILITIES SHALL BE IMMEDIATELY REPAIRED TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.

## KEY NOTES

- 1 REMOVE PROTECTIVE BARRIERS AFTER COMPLETION OF CONSTRUCTION.
- 2 AUTO DOOR OPERATOR ACTIVATOR
- 3 FOR ADDITIONAL WORK THIS ROOM RE: MECHANICAL & ELECTRICAL DRAWINGS
- 4 PATCH WALL OPENING WITH SALVAGED BRICK, TOOTHED IN PLACE,  
CMU BACK-UP, PLASTER INTERIOR.
- 5 SAWCUT BRICK TO PLACE NEW LOUVERS, PROVIDE STEEL ANGLE LINTEL,  
RE: A4/AE501

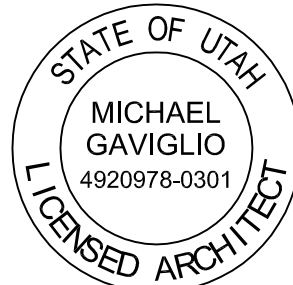


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DFCM PROJECT NO. 04040810

UTAH STATE DIVISION OF  
FACILITIES CONSTRUCTION  
DFCM PROJECT NO. 040400

SEAL



MHTN PROJECT NO.

DFCM PROJECT NO. 2005605

DRAWN BY:

CHECKED BY: MM

ISSUED

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## REVISIONS

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## GROUND FLOOR

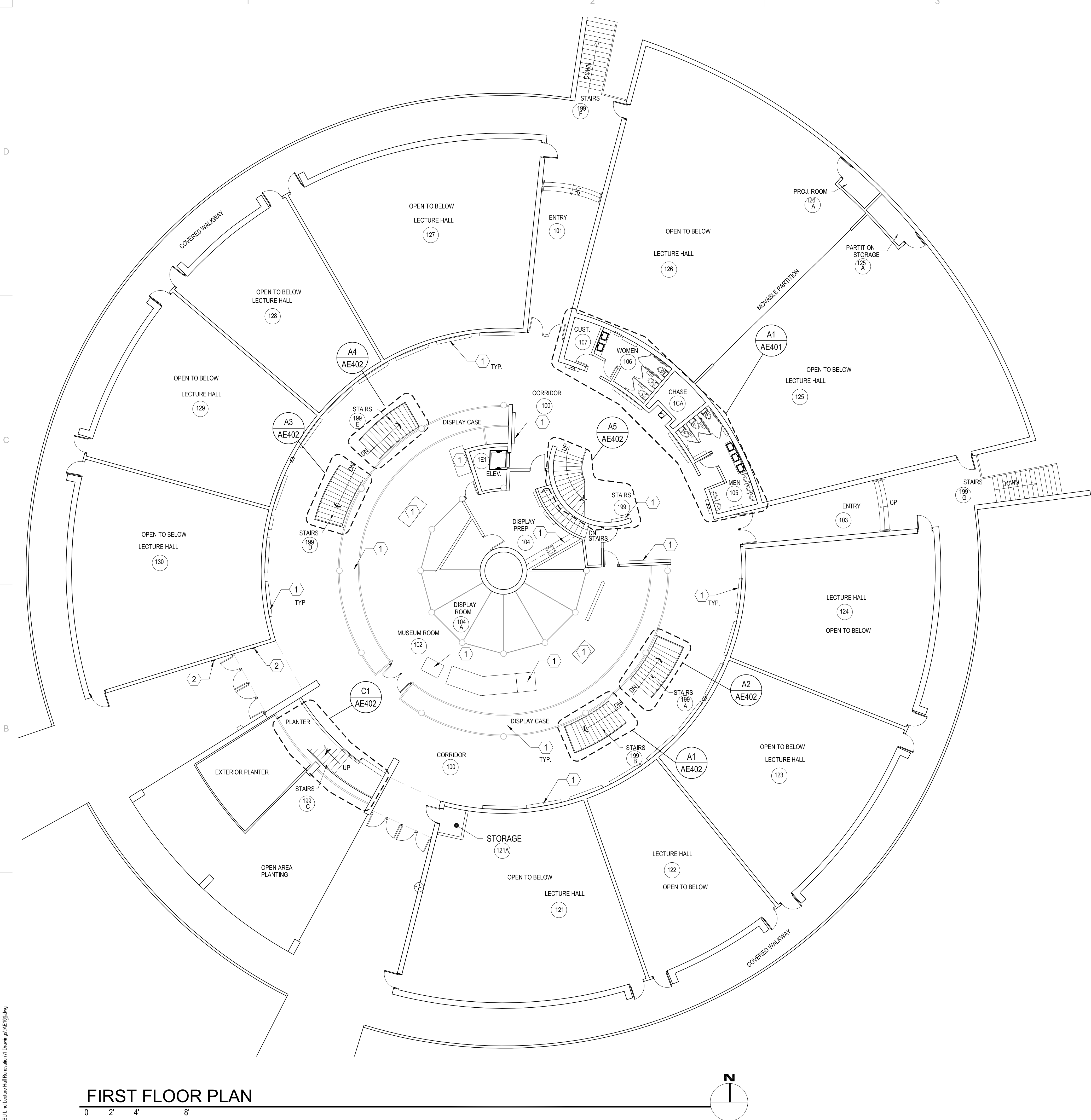
## CONSTRUCTION SET

SHEET NUMBER

# AE100



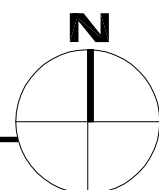
By: R. H. L. - Nov 20, 2019 - 2:10pm  
K:\SOUTH\200505\WSU Lind Lecture Hall Remodel\1 Drawings\AE101.dwg



## FIRST FLOOR PLAN

0 2' 4' 8'

SCALE: 3/32" = 1'-0"



## REMODELING NOTES

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## KEY NOTES

- 1 REMOVE PROTECTIVE BARRIERS AFTER COMPLETION OF CONSTRUCTION.
- 2 AUTO DOOR OPERATOR ACTIVATOR

## LEGEND

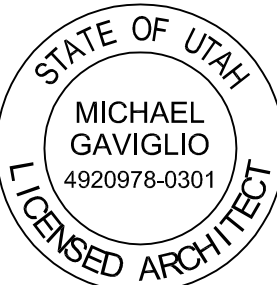
- EXISTING WALLS TO REMAIN
- NEW PARTITIONS:
  - 5/8" GYP.BD. EA. SIDE OF 3 5/8"
  - METAL STUDS @ 16" O.C., UP TO DECK ABOVE, 1 HR. RATED, WITH BATT. INSULATION UL DESIGN U469 & U906.



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LIND LECTURE HALL REMODEL  
WEBER STATE UNIVERSITY  
OGDEN CAMPUS OGDEN, UTAH  
UTAH STATE DIVISION OF  
FACILITIES CONSTRUCTION & MANAGEMENT  
DFCM PROJECT NO. 04040810

SEAL



MHTN PROJECT NO.

DFCM PROJECT NO. 2005605

DRAWN BY: TML

CHECKED BY: MS

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## FIRST FLOOR FLOOR PLAN

CONSTRUCTION SET

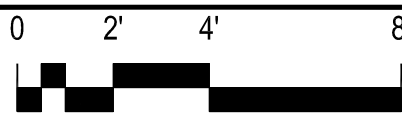
SHEET NUMBER

AE101

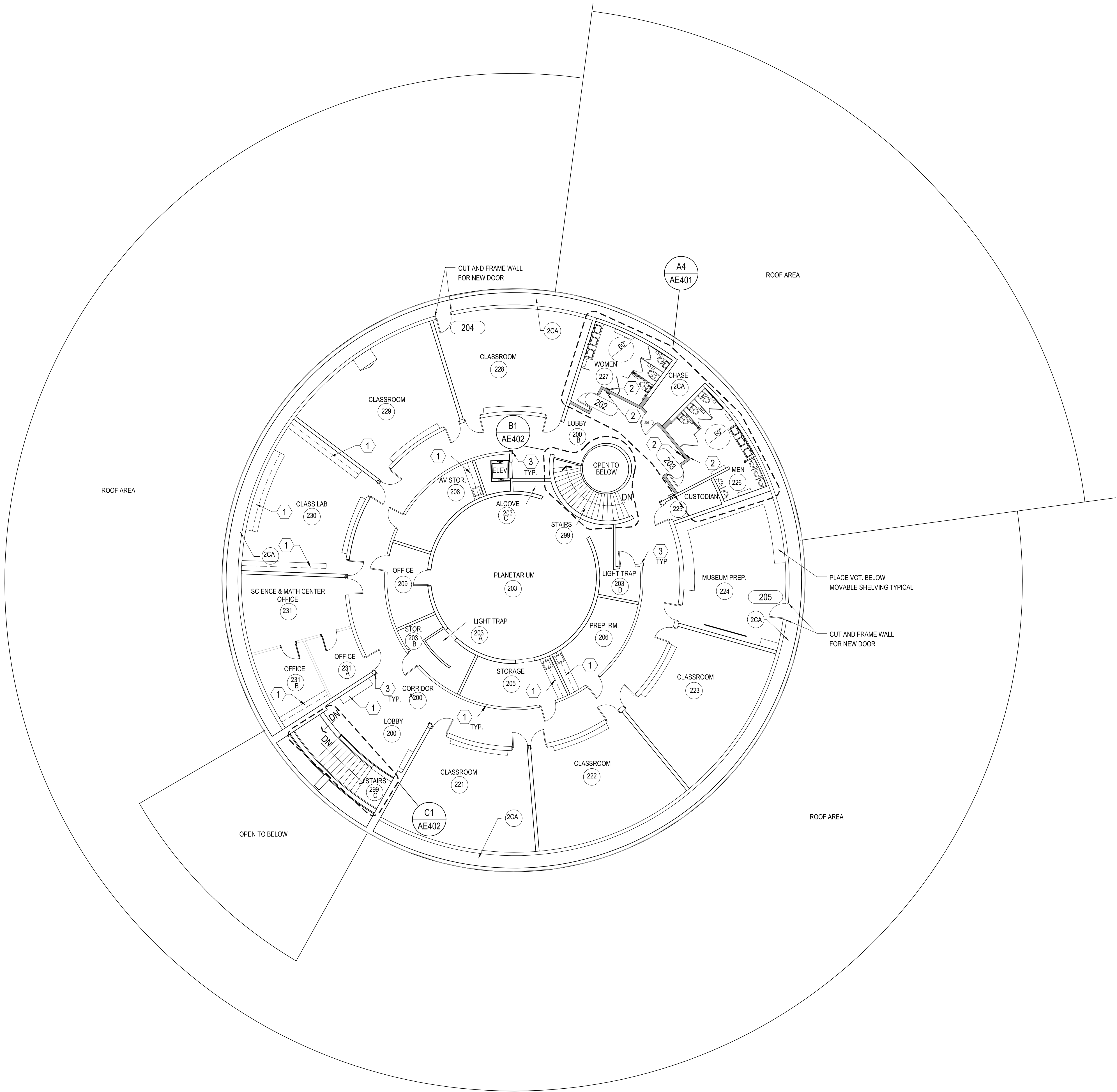
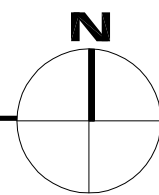


By: P. B. - Nov 20, 2019 - 2:11pm  
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## SECOND FLOOR PLAN



SCALE: 3/32" = 1'-0"



## REMODELING NOTES

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK.
2. WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.
3. CUT AND PATCH EXISTING BUILDING CONSTRUCTION AS REQUIRED. CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE ARCHITECT.
4. THE CONTRACTOR SHALL COORDINATE PHASING & TIMING OF THE WORK WITH THE OWNER AND ARCHITECT TO MEET THE OWNERS SCHEDULE.
5. ALL CONSTRUCTION ACTIVITY IS TO BE CONTAINED WITHIN CONSTRUCTION BARRICADES OR FENCES. CONTRACTORS SHALL PROTECT OWNERS EXISTING CONSTRUCTION ADJACENT TO NEW CONSTRUCTION. AFTER WORK OF THIS CONTRACT, CLEAN AND RETURN TO ACCEPTABLE CONDITION EXISTING AREAS EFFECTED BY THE WORK TO THE OWNERS SATISFACTION.
6. PAINT ALL EXISTING WALLS WHERE EFFECTED BY DEMOLITION AND NEW CONSTRUCTION.
7. PAINT ALL NEW PIPING AND CONDUIT WHERE EXPOSED.
8. SUPPORT AND PROTECT EXISTING TO REMAIN SIGNAGE, FIRE ALARM SYSTEMS, LIGHTING, ETC. DURING CONSTRUCTION, UNLESS OTHERWISE NOTED.
9. PATCH OPENINGS THAT REMAIN AFTER REMOVAL / DEMOLITION OF MECHANICAL & ELECTRICAL DEVICES. WITH MATERIALS AND FINISH TO MATCH ADJACENT SURFACES.

## GENERAL CONSTRUCTION NOTES

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL FIELD CHECK ALL EXISTING CONSTRUCTION AND SITE CONDITIONS TO VERIFY THAT DIMENSIONS & FINISHES COMPLY WITH THE CONTRACT DOCUMENTS. IF ANY VARIANCE IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PROJECT MANAGER IMMEDIATELY AND IN WRITING. THE ABSENCE OF SUCH NOTIFICATION WILL BE CONSTRUED AS AN ACCEPTANCE OF THE PRIOR WORK AND LATER CLAIMS OF DEFECTS WILL NOT BE CONSIDERED.
2. CONTRACTOR SHALL NOT SCALE DRAWINGS, WRITTEN DIMENSIONS SHALL ALWAYS GOVERN. CONTRACTORS REQUIRING DIMENSIONS NOT NOTED SHALL CONTACT THE ARCHITECT PROJECT MANAGER FOR SUCH INFORMATION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
3. PROTECT ALL EXISTING SURFACES, EQUIPMENT, ETC. THE CONTRACTOR SHALL REPAIR AND MAKE GOOD ANY DAMAGE TO ADJOINING SURFACES OR AREAS NOT PART OF THIS CONTRACT AT NO COST TO THE OWNER.
4. MAINTAIN A SAFE AND CLEAR ACCESS WAY AT ALL TIMES THROUGH WALKWAYS, DRIVE APPROACHES AND MAIN TRAFFIC AREAS.
5. PROVIDE DUST, WEATHER, AND SECURITY PROTECTION TO AREAS STILL IN USE DURING THE CONSTRUCTION PHASE. PROVIDE SECURE BARRICADES BETWEEN ACTIVE PEDESTRIAN WALKWAYS AND CONSTRUCTION ACTIVITIES.
6. DEBRIS SHALL BE REMOVED FROM SITE DAILY OR AS DIRECTED BY THE WSU PROJECT MANAGER.
7. MOST, BUT NOT ALL UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ON THE DRAWINGS. THE CONTRACTOR SHALL INFORM THE WSU PROJECT MANAGER 48 HOURS PRIOR TO ANY ACTIVITIES THAT MIGHT AFFECT THESE UTILITIES. IF DAMAGE TO EXISTING UTILITIES IS CAUSED AS A RESULT OF THE CONTRACTOR'S OPERATIONS, THE UTILITIES SHALL BE IMMEDIATELY REPAIRED TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.

## KEY NOTES

- 1 REMOVE PROTECTIVE BARRIERS AFTER COMPLETION OF CONSTRUCTION.
- 2 AUTO DOOR OPERATOR ACTIVATOR (ALT. #4 @ 2ND FLOOR TOILETS)
- 3 CORNERGUARD

## LEGEND

- EXISTING WALLS TO REMAIN
- NEW PARTITIONS:  
5/8" GYP.BD. EA. SIDE OF 3 5/8"  
METAL STUDS @ 16" O.C., UP TO  
DECK ABOVE, 1 HR. RATED, WITH  
BATT INSULATION, UL DESIGN U469  
& U906.

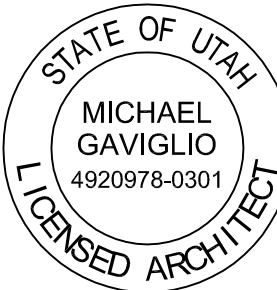


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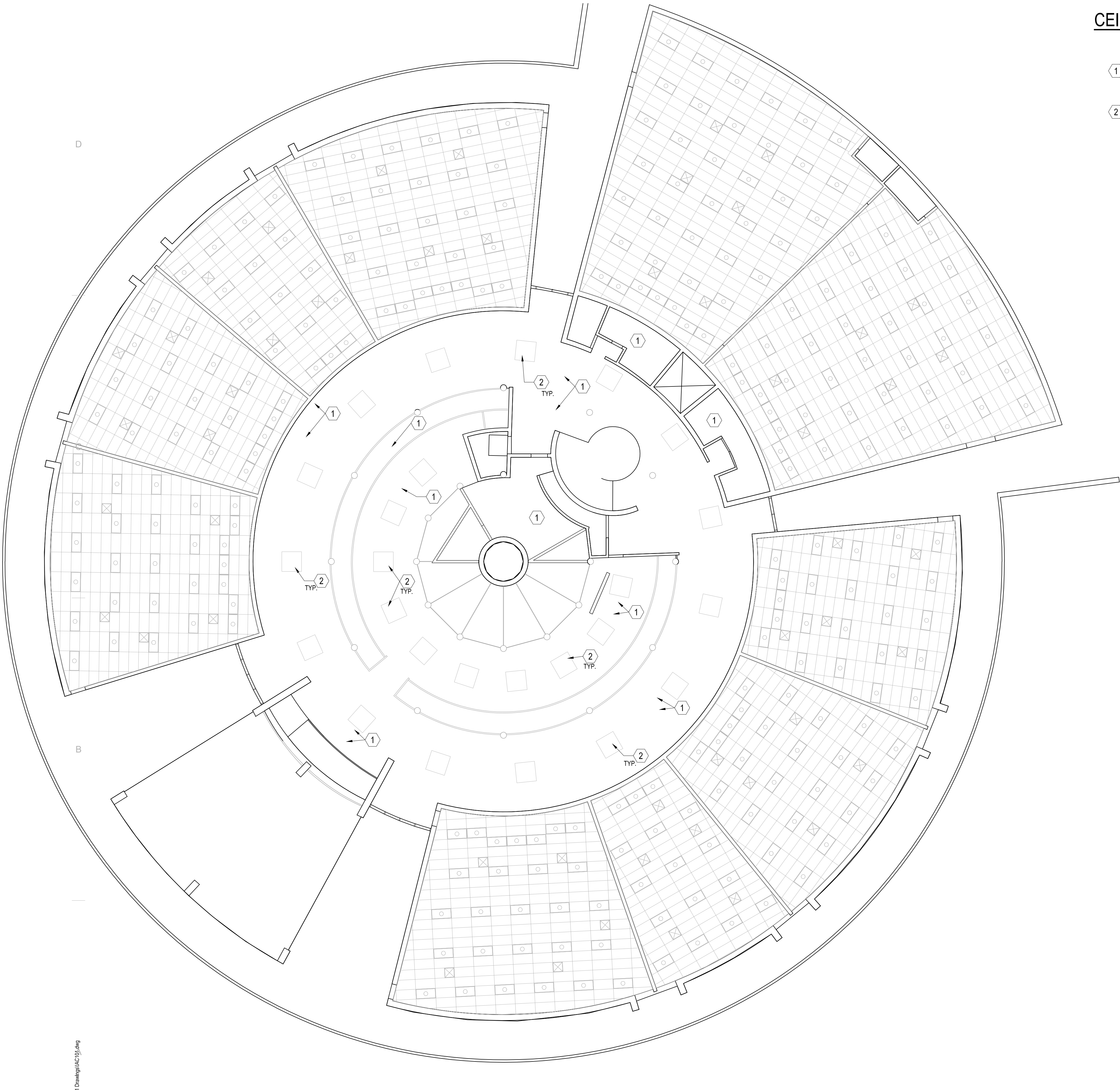
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## SECOND FLOOR FLOOR PLAN

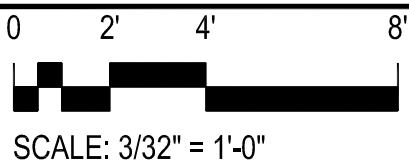
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SHEET NUMBER

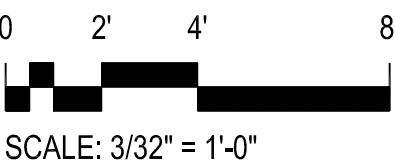
# AE102



FIRST FLOOR REFLECTED CEILING PLAN



GROUND FLOOR CEILING PLAN



CEILING KEY NOTES

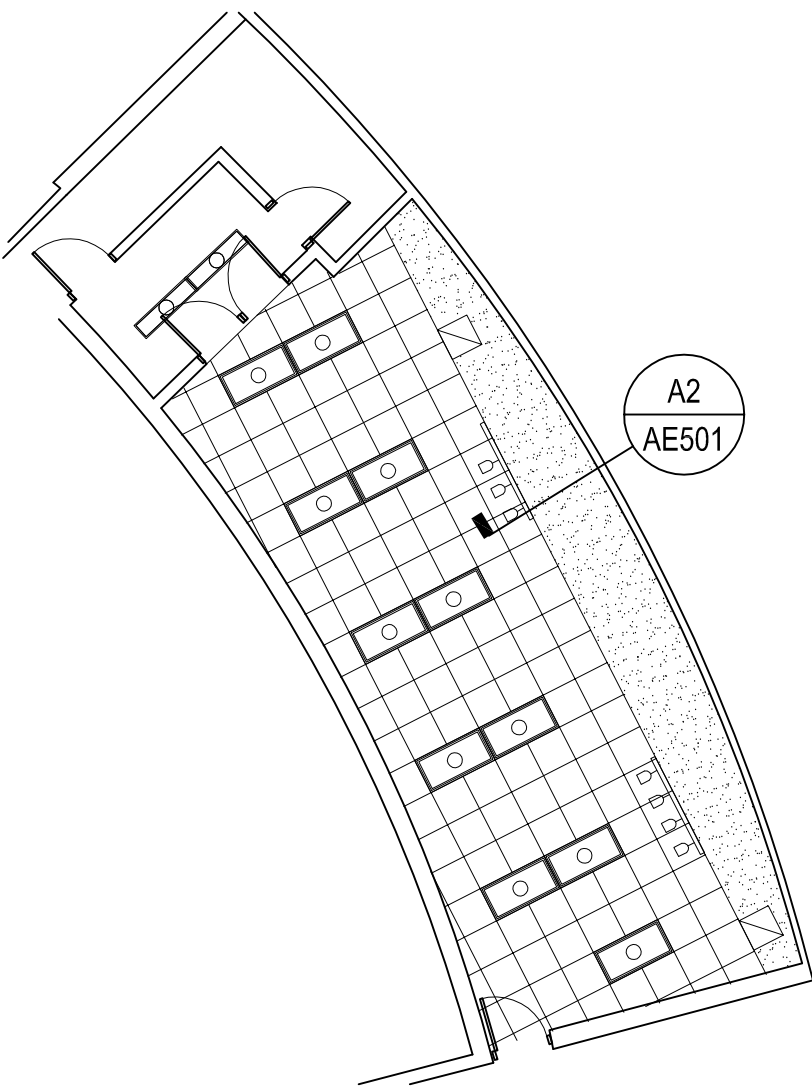
- 1 PATCH AND PAINT ALL CEILING AREA; INCLUDING CONCRETE, GYPSUM BOARD, UNFINISHED UTILITIES.
- 2 ALT #. 6; 4'-0" x 4'-0" ACOUSTICAL TILE PANELS, RE: B3/AE501

CEILING GENERAL NOTES

1. ALL SUSPENDED CEILING AREAS TO BE SEISMICALLY BRACED. RE: D1/AE501. A MINIMUM OF ONE BRACE REQUIRED IN ANY SPACE OF 144 S.F. OR LARGER.
2. RE: D2/AE501 FOR CEILING SUSPENSION DETAIL BELOW DUCTWORK OR OTHER OBSTRUCTION .

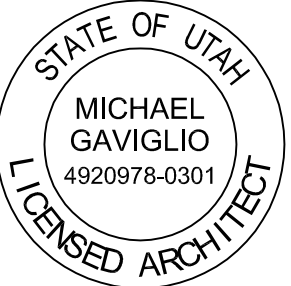
CEILING PLAN LEGEND

- NEW 2' x 4' ACOUSTICAL CEILING TILE SYSTEM
- EXISTING 2' x 4' ACOUSTICAL CEILING TILE SYSTEM
- NEW SUSP. GYP. BD. CEILING, 1 HR RATED, RE: D3/AE501
- 2' x 4' RECESSED FLUORESCENT LIGHT FIXTURE
- SUPPLY AIR DIFFUSER - SEE MECH.
- RETURN AIR/EXHAUST GRILLE
- 1 HR. RATED WALL TO DECK ABOVE



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FIRST FLOOR  
CEILING PLAN

CONSTRUCTION SET

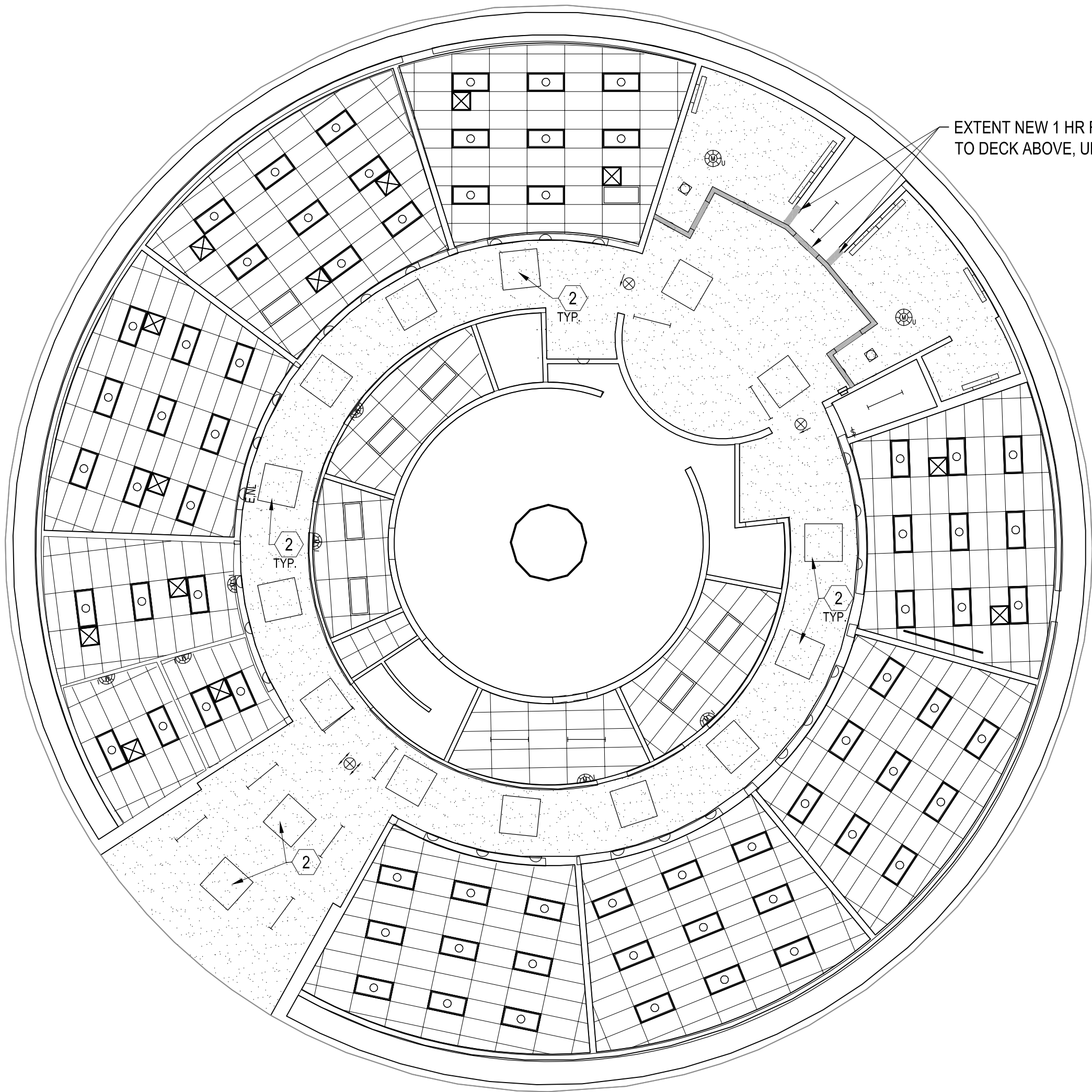
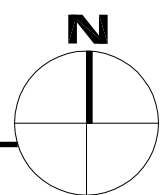
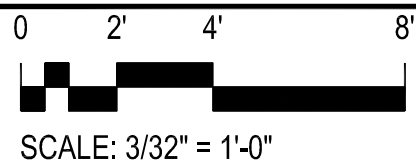
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By: P:\Bldg - Nov 20, 2006 - 2:11pm  
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SECOND FLOOR REFLECTED CEILING PLAN



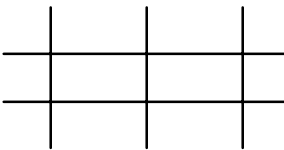
CEILING KEY NOTES

- 1 PATCH AND PAINT ALL CEILING AREA; INCLUDING CONCRETE, GYPSUM BOARD, UNFINISHED UTILITIES.
- 2 ALT #. 6; 4'-0" x 4'-0" ACOUSTICAL TILE PANELS, RE: B3/AE501

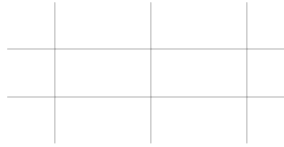
CEILING GENERAL NOTES

1. ALL SUSPENDED CEILING AREAS TO BE SEISMICALLY BRACED. RE: D1/AE501. A MINIMUM OF ONE BRACE REQUIRED IN ANY SPACE OF 144 S.F. OR LARGER.
2. RE: D2/AE501 FOR CEILING SUSPENSION DETAIL BELOW DUCTWORK OR OTHER OBSTRUCTION .

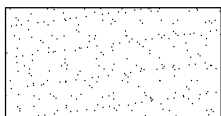
CEILING PLAN LEGEND



NEW 2' x 4' ACOUSTICAL CEILING TILE SYSTEM



EXISTING 2' x 4' ACOUSTICAL CEILING TILE SYSTEM



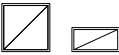
NEW SUSP. GYP. BD. CEILING, 1 HR RATED, RE: D3/AE501



2' x 4' RECESSED FLUORESCENT LIGHT FIXTURE



SUPPLY AIR DIFFUSER - SEE MECH.



RETURN AIR/EXHAUST GRILLE

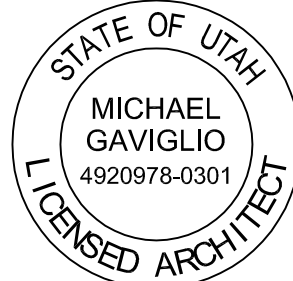


1 HR. RATED WALL TO DECK ABOVE



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SECOND FLOOR  
CEILING PLAN

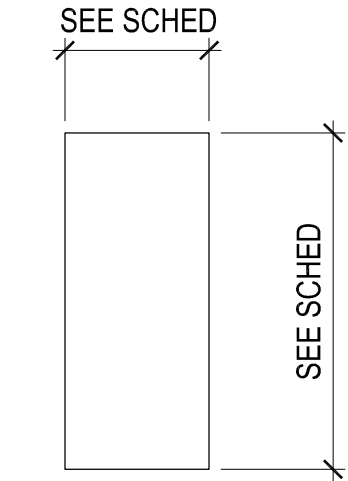
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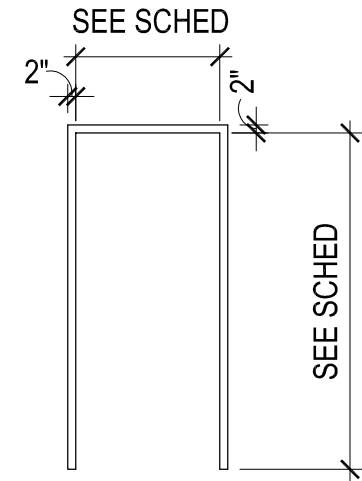
AC102



| DOOR SCHEDULE |      |               |           |          |       |             |          |             |             |             |            |             |          |       |        |
|---------------|------|---------------|-----------|----------|-------|-------------|----------|-------------|-------------|-------------|------------|-------------|----------|-------|--------|
| Number        | Door |               |           |          | Frame |             |          |             |             |             | Electrical | Fire Rating | Hardware | Notes | Number |
|               | Type | Size          | Thickness | Material | Type  | Frame Depth | Material | Head Detail | Jamb Detail | Sill Detail |            |             |          |       |        |
| 201           | A    | 3'-0" x 7'-0" | 1 3/4"    | HM       | 1     | 5 3/4"      | HM       | C1/AE501    | C2/AE501    | --          | --         | 60 MIN      | E        |       | 201    |
| 202           | A    | 3'-0" x 7'-0" | 1 3/4"    | HM       | 1     | 5 3/4"      | HM       | C1/AE501    | C2/AE501    | --          | --         | 20 MIN      | D        |       | 202    |
| 203           | A    | 3'-0" x 7'-0" | 1 3/4"    | HM       | 1     | 5 3/4"      | HM       | C1/AE501    | C2/AE501    | --          | --         | 20 MIN      | D        |       | 203    |
| 204           | A    | 3'-0" x 7'-0" | 1 3/4"    | HM       | 1     | 5 3/4"      | HM       | C1/AE501    | C2/AE501    | --          | --         | 60 MIN      | E        |       | 204    |
| 205           | A    | 3'-0" x 7'-0" | 1 3/4"    | HM       | 1     | 5 3/4"      | HM       | C1/AE501    | C2/AE501    | --          | --         | 60 MIN      | E        |       | 205    |
|               |      |               |           |          |       |             |          |             |             |             |            |             |          |       |        |
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DOOR TYPE A



FRAME TYPE 1

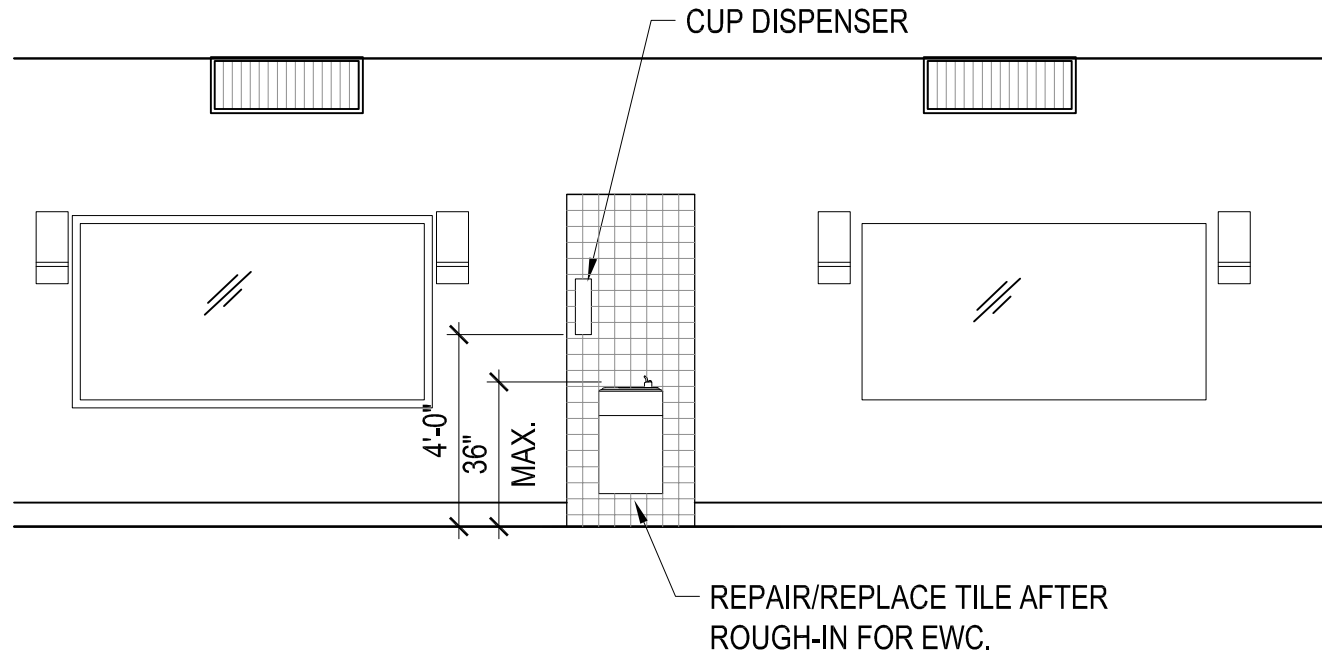
REFERENCE NOTES

- 1 ACCESSIBLE WATER CLOSET
- 2 ACCESSIBLE URINAL
- 3 ACCESSIBLE LAVATORY W/ INSULATED PIPING
- 4 FLOOR MOUNTED, OVERHEAD BRACED TOILET PARTITION (DOOR NOT SHOWN)
- 5 FLOOR MOUNTED URINAL PARTITION, 24" W.
- 6 COUNTERTOP, RE: A2/AE403
- 7 CORNER GUARD

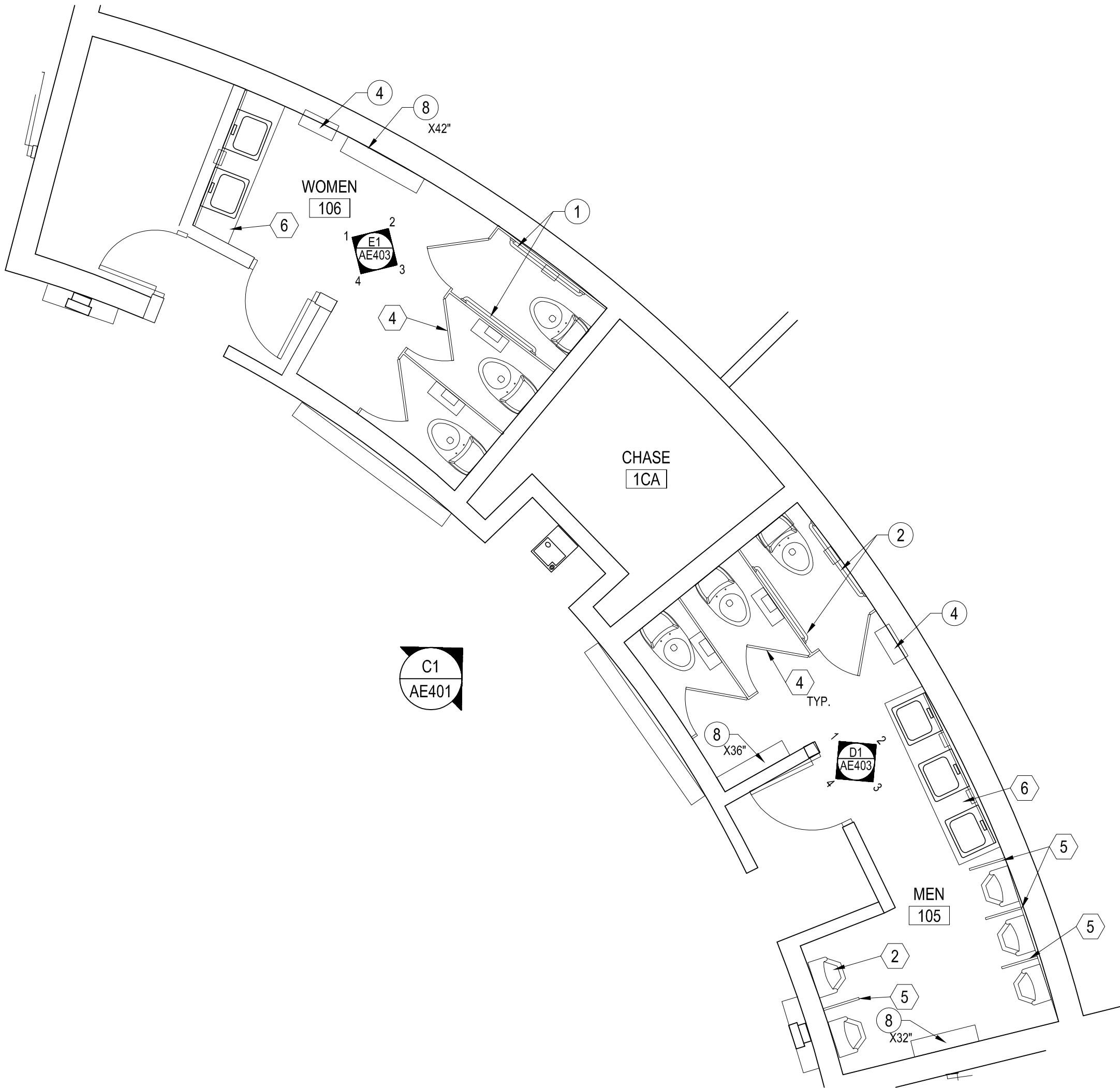
ACCESSORY SCHEDULE

| NO. | ITEM                            |
|-----|---------------------------------|
| 1   | GRAB BAR (42")                  |
| 2   | GRAB BAR (36")                  |
| 3   | TOILET TISSUE DISPENSER *       |
| 4   | PAPER TOWEL DISPENSER, EXIST.   |
| 5   | SOAP DISPENSER - WALL MOUNTED * |
| 6   | SANITARY NAPKIN DISPOSAL        |
| 7   | MIRROR 30" X 40"                |
| 8   | BACKPACK SHELF, RE: A1/501      |

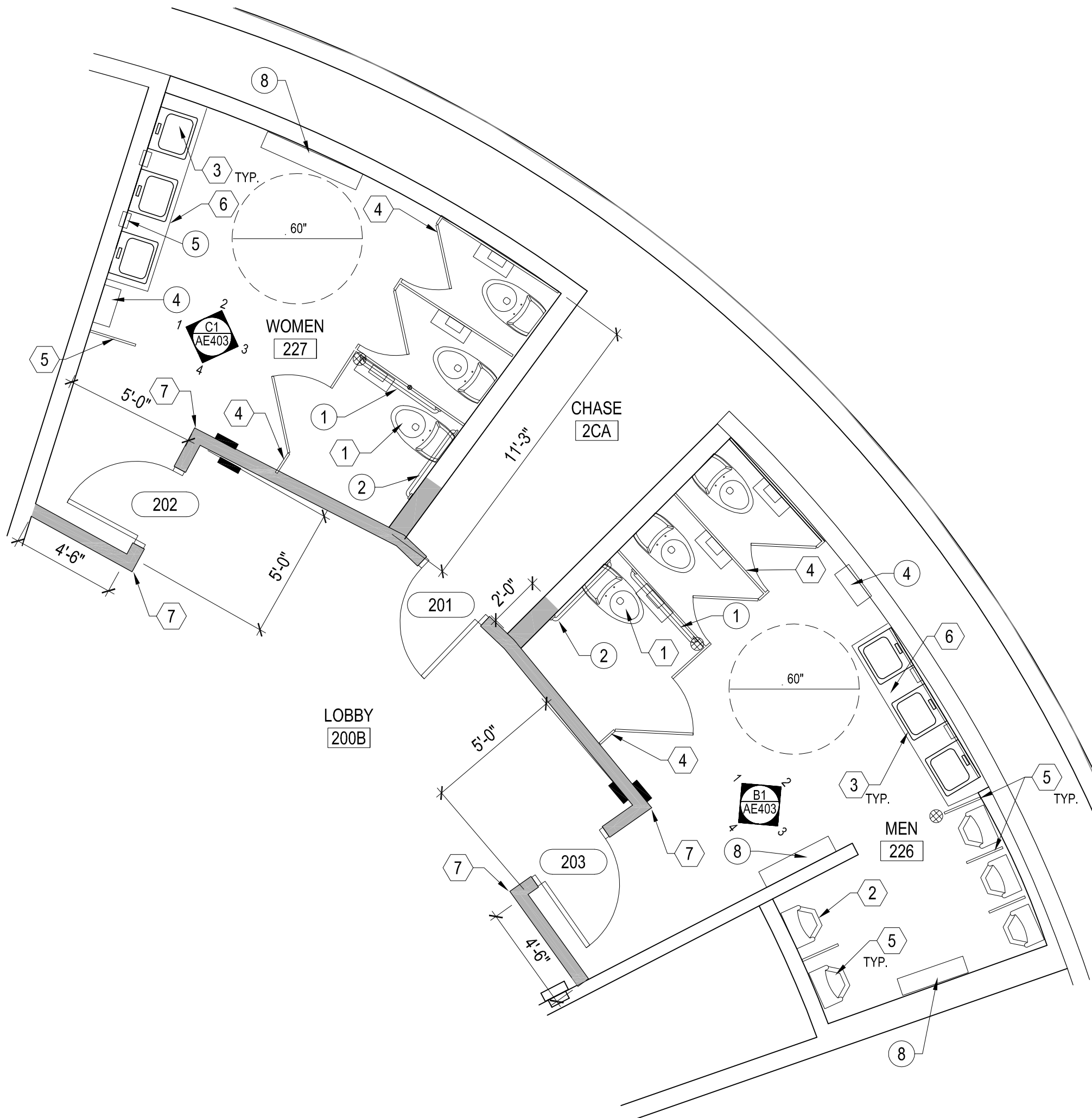
\* PROVIDED BY OWNER, INSTALLED BY GENERAL CONTRACTOR, VERIFY LOCATION & MOUNTING HGT. W/ OWNER



C1 ELEVATION  
1/4" = 1'-0"

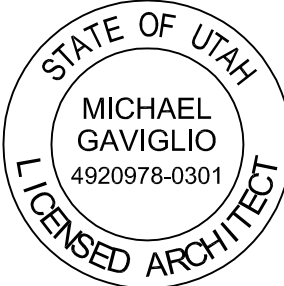


A1 FIRST FLOOR MEN 105 AND WOMEN 106 TOILET ROOMS  
1/4" = 1'-0"



A4 SECOND FLOOR MEN 226 AND WOMEN 227 TOILET ROOMS  
1/4" = 1'-0"

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PLANS &  
SECTION

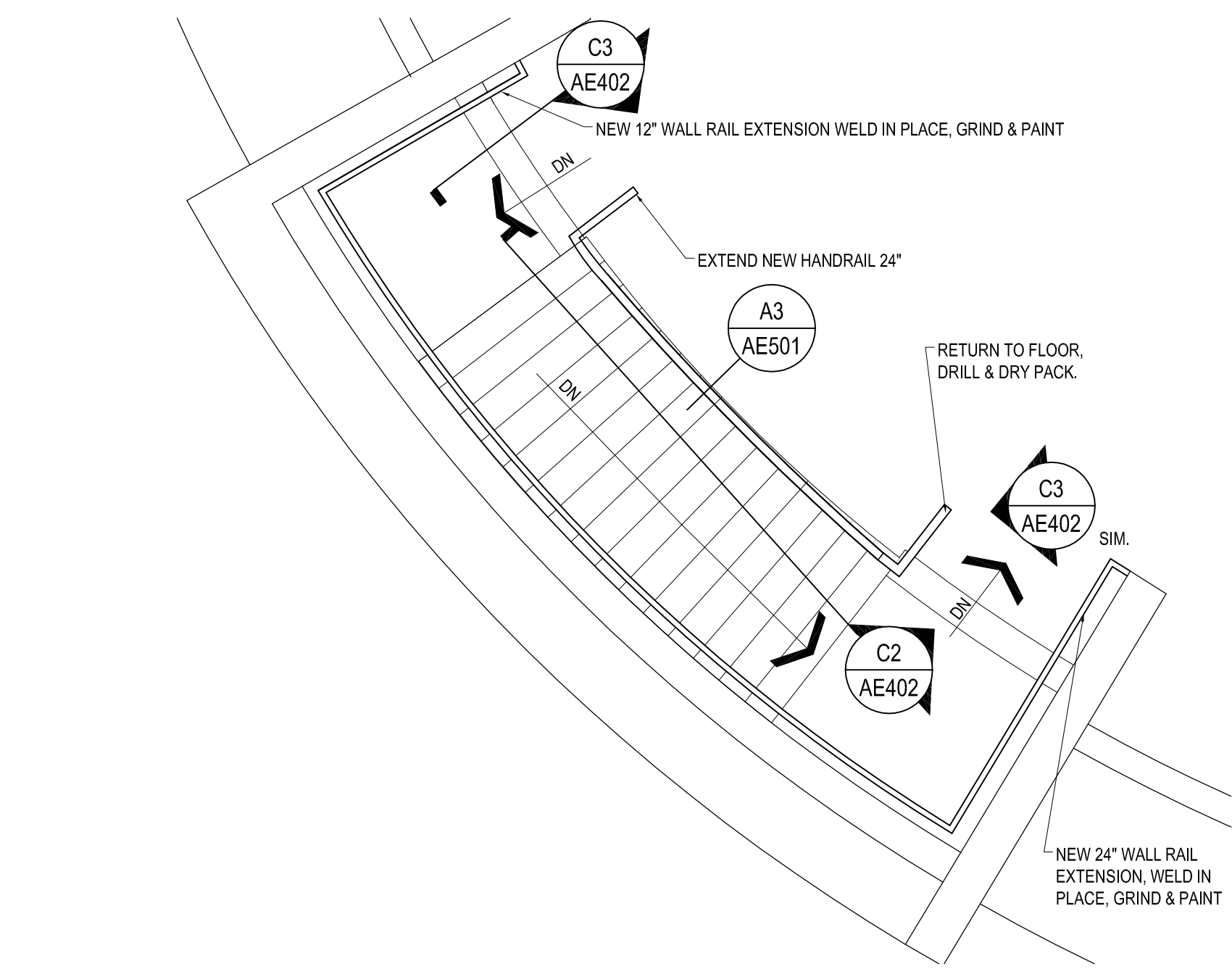
CONSTRUCTION SET

SHEET NUMBER

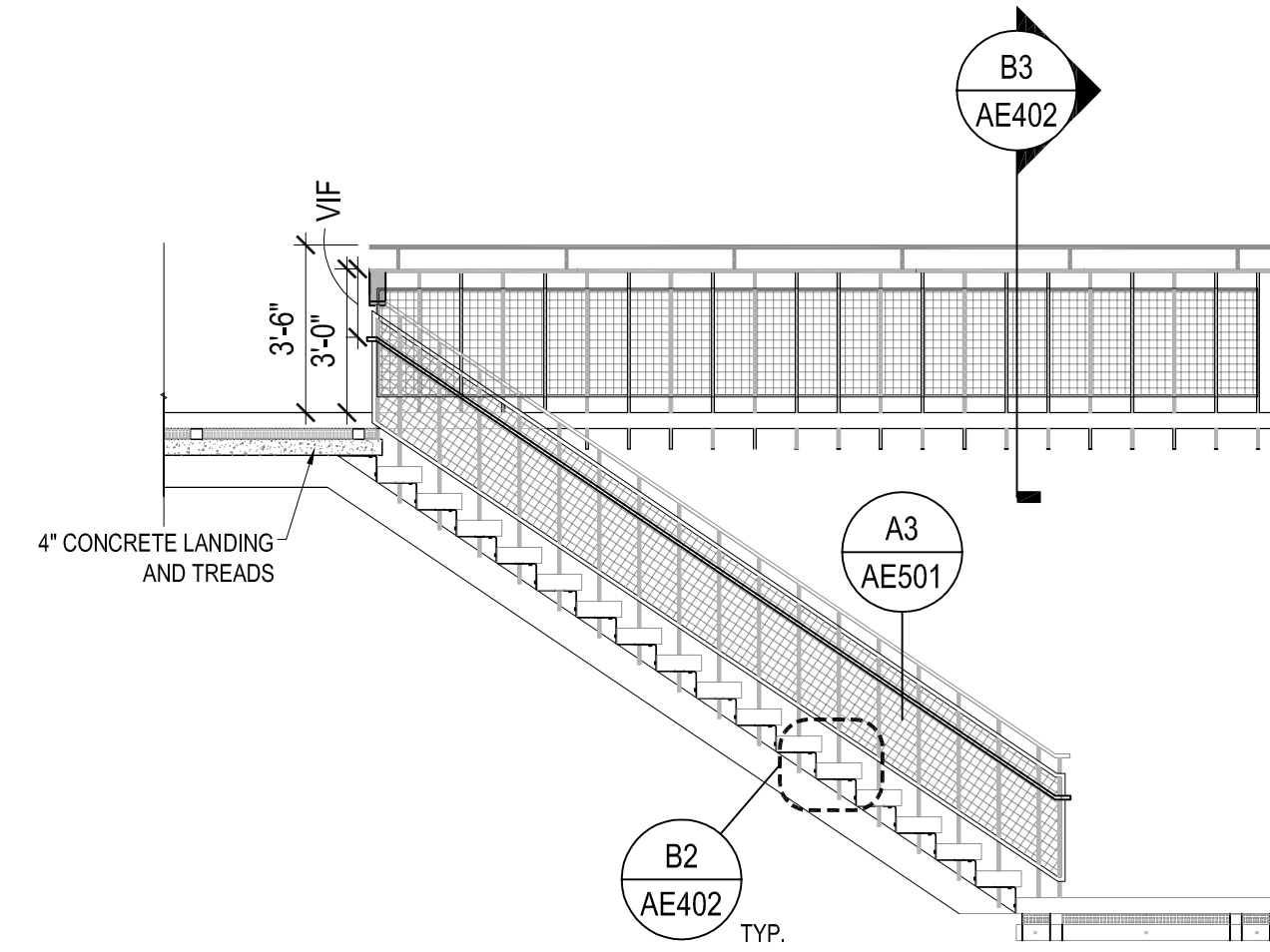
AE401



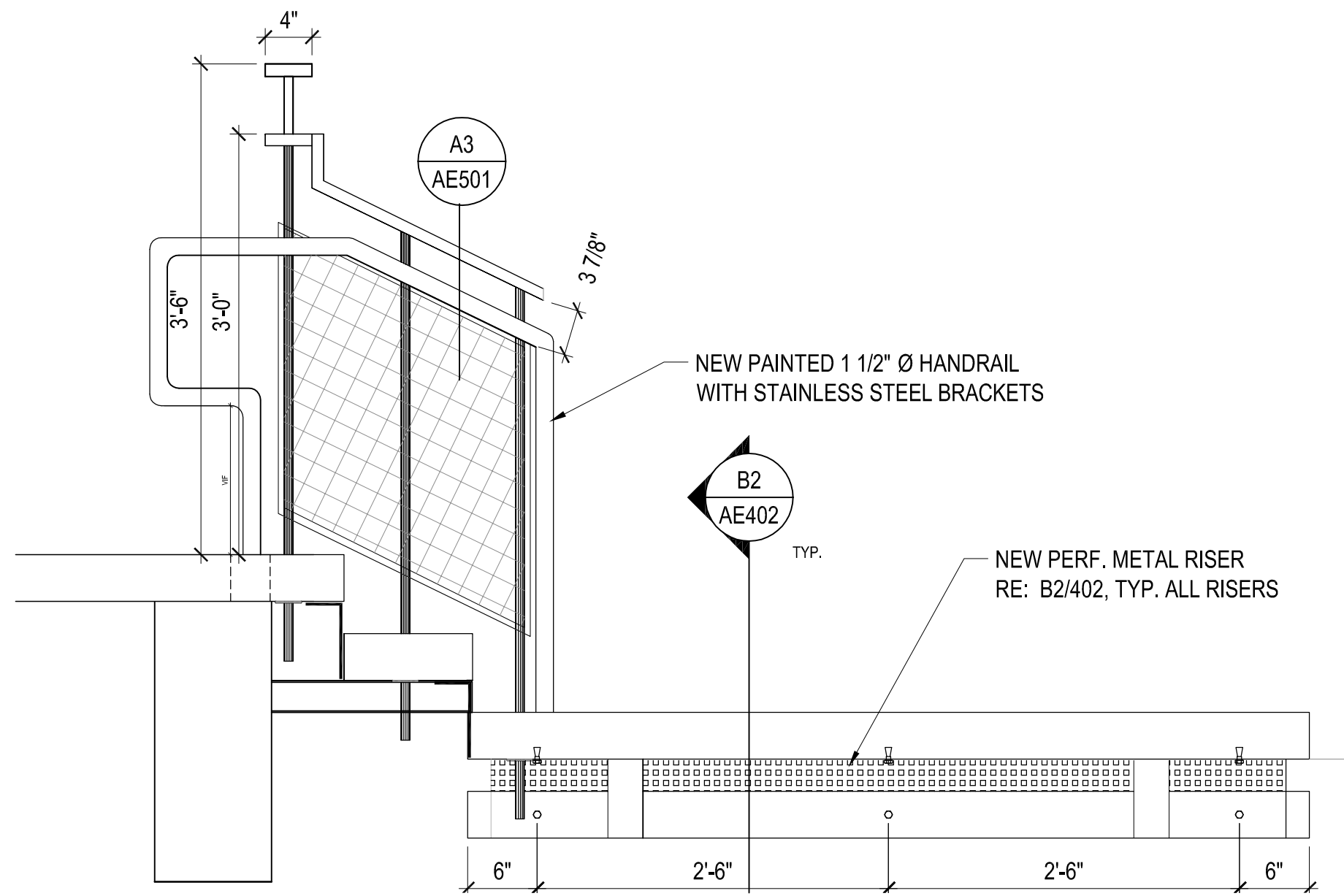
MHTN ARCHITECTS, INC.  
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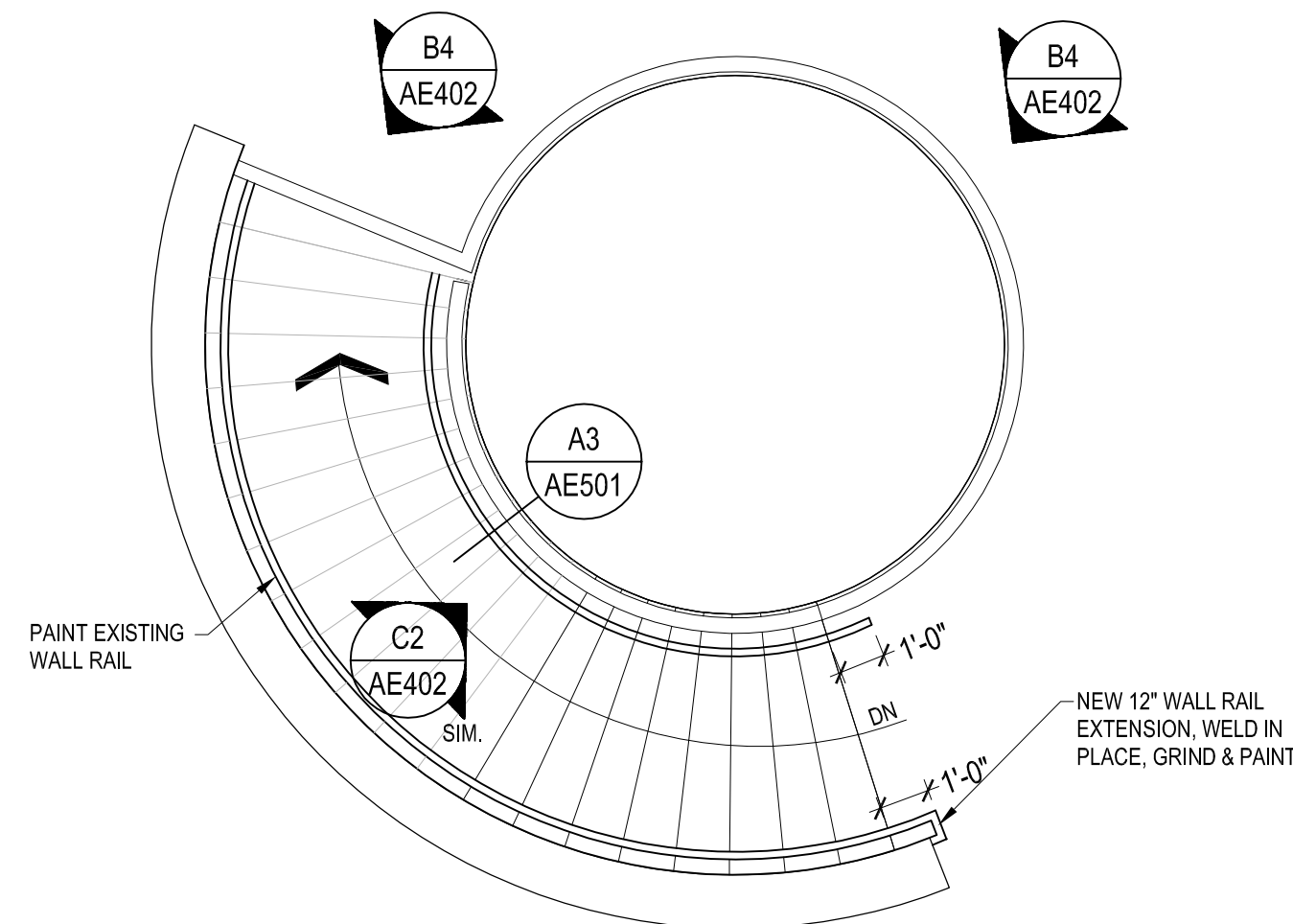
**C1** STAIR 299 C - ALT #1  
1/4" = 1'-0"



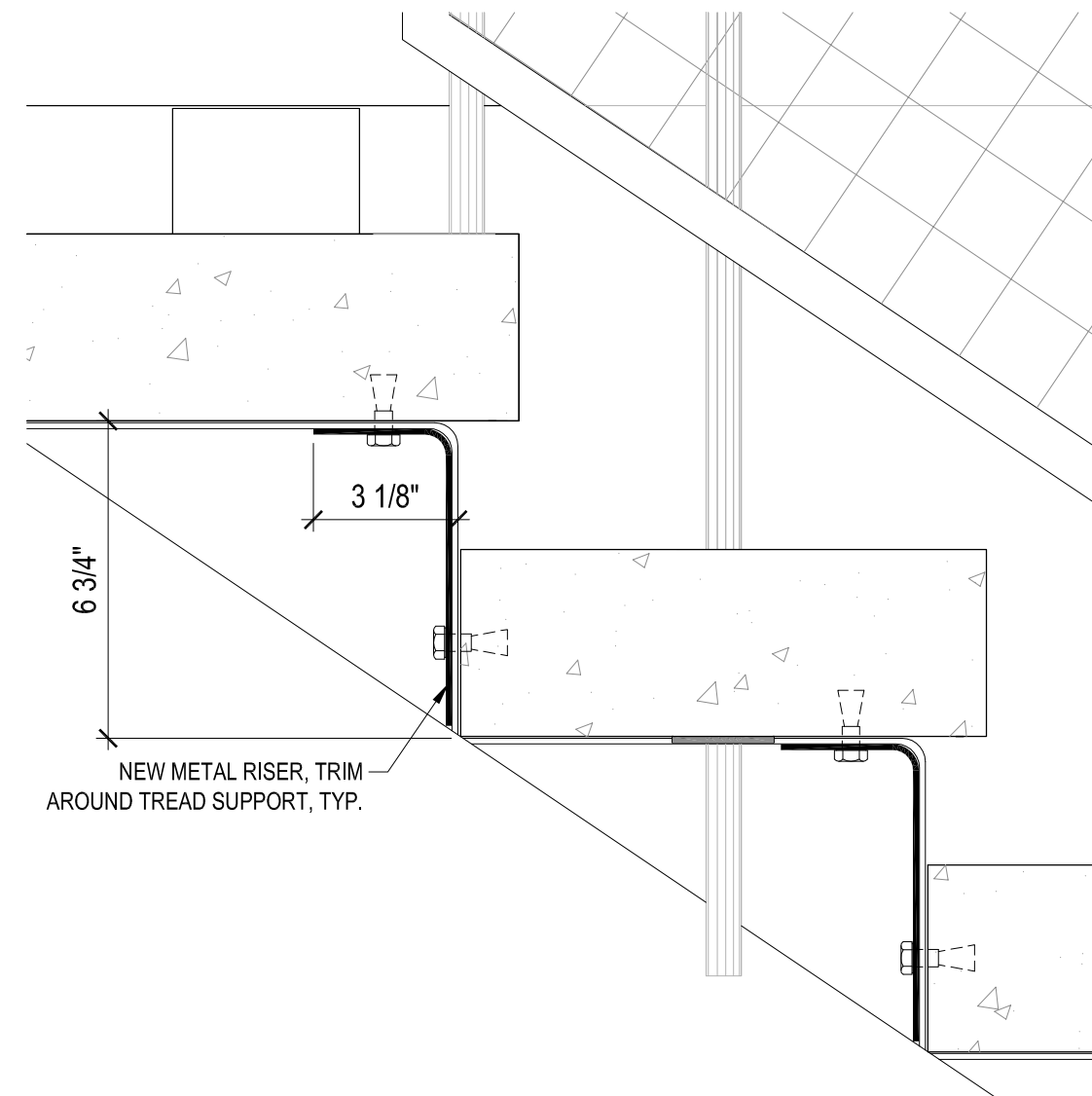
**C2** RAILING/STAIR ELEVATION - ALT #1  
1/4" = 1'-0"



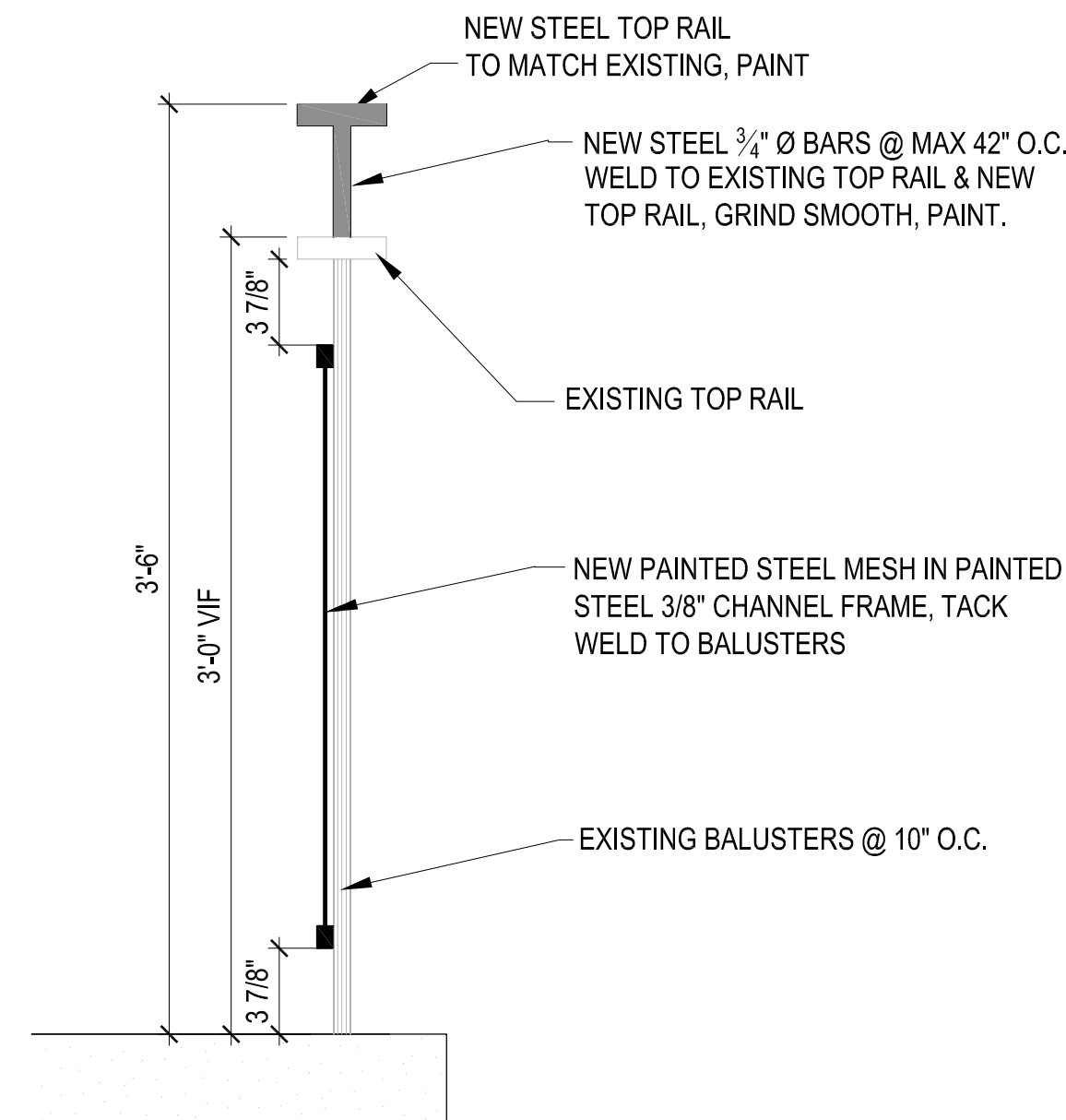
**C3** STAIR SECTION - ALT #1  
1" = 1'-0"



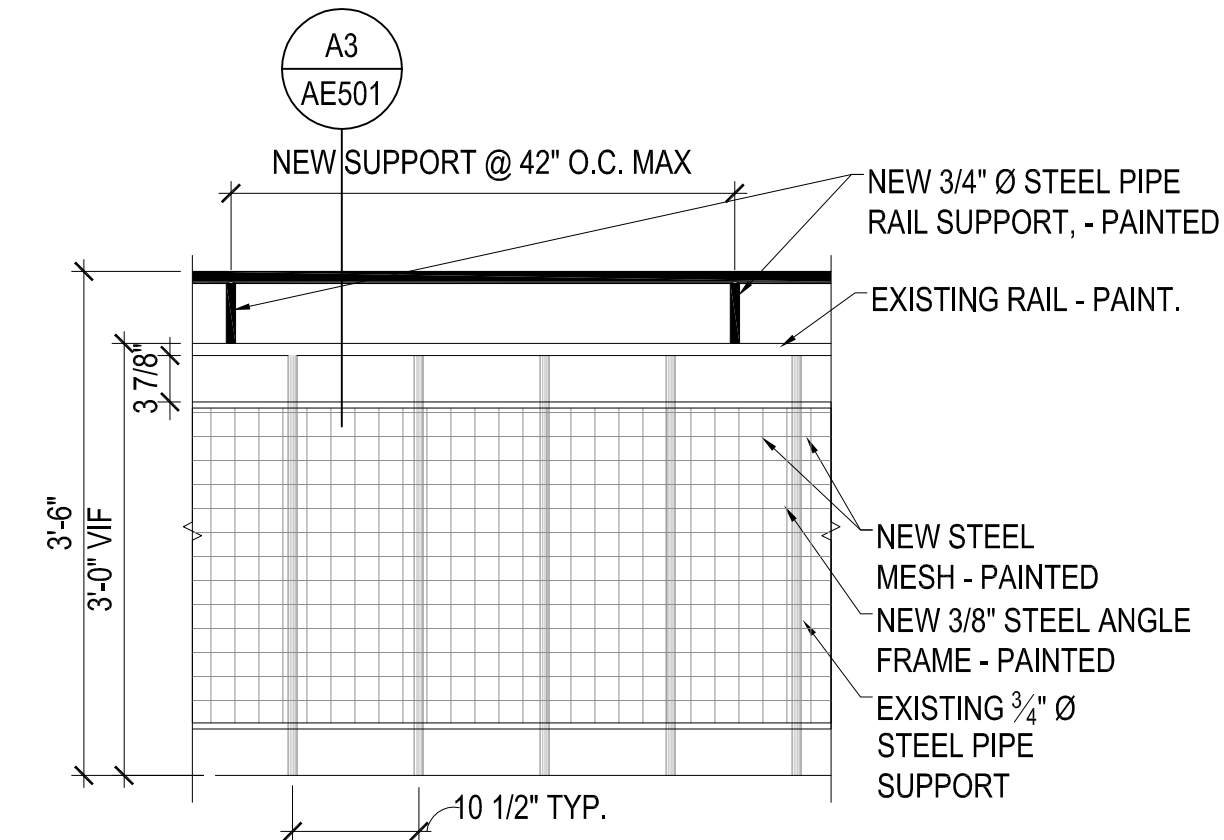
**B1** STAIRS 299 - ALT #1  
1/4" = 1'-0"



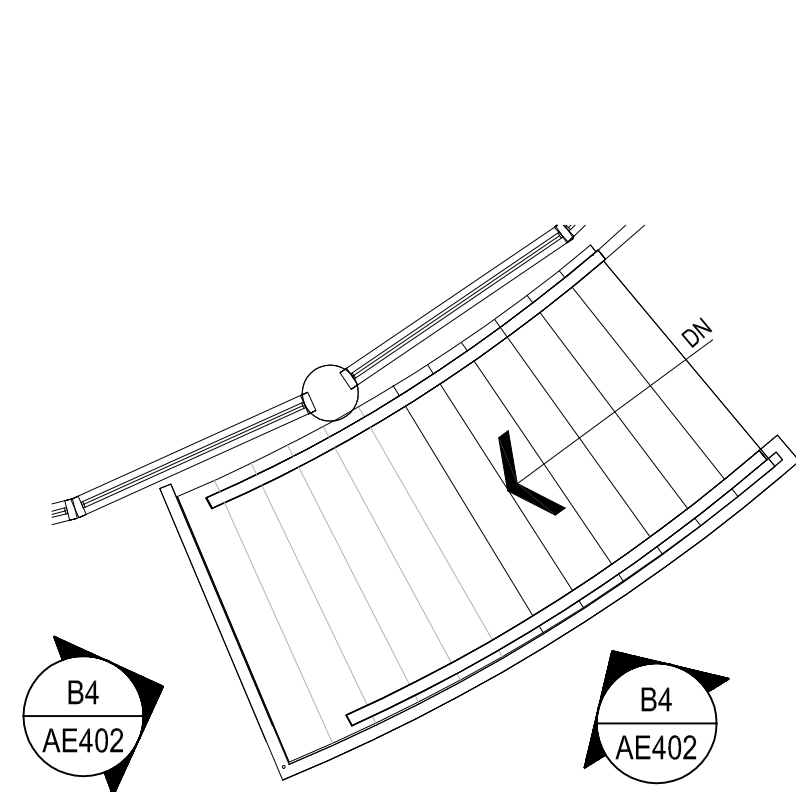
**B2** STAIR SECTION - ALT #1  
3" = 1'-0"



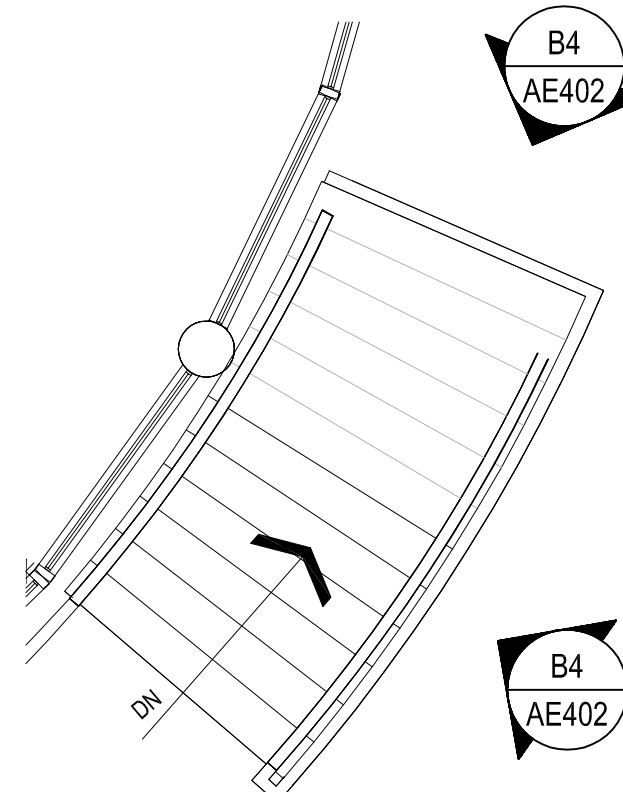
**B3** RAIL SECTION - ALT #1  
1 1/2" = 1'-0"



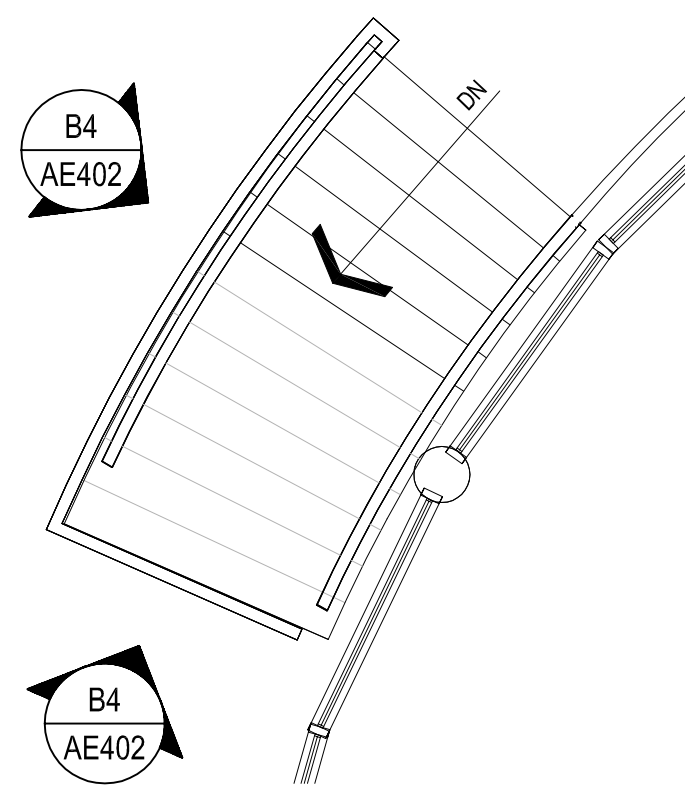
**B4** GUARD RAIL - ALT #1  
3/4" = 1'-0"



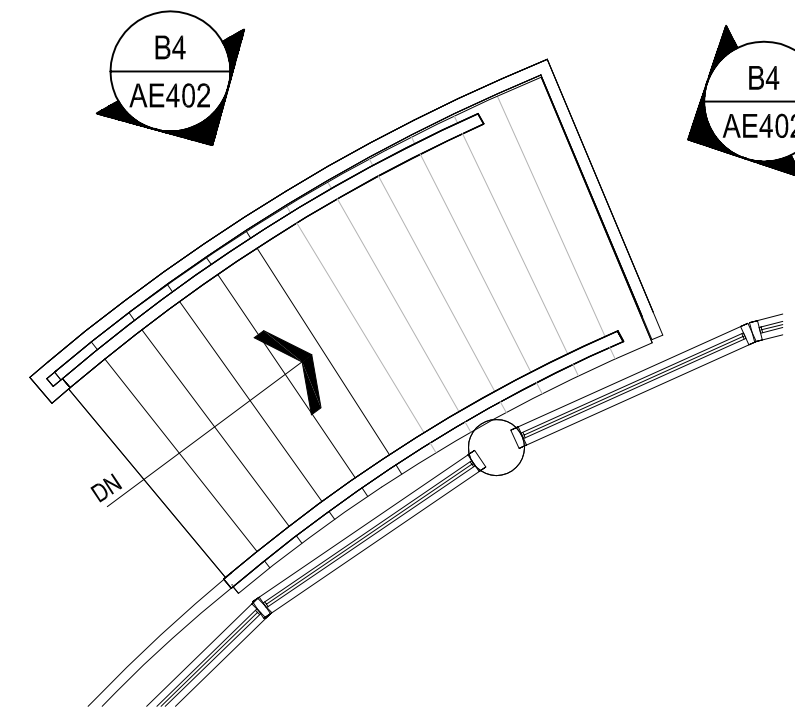
**A1** STAIRS 199 B - ALT #1  
1/4" = 1'-0"



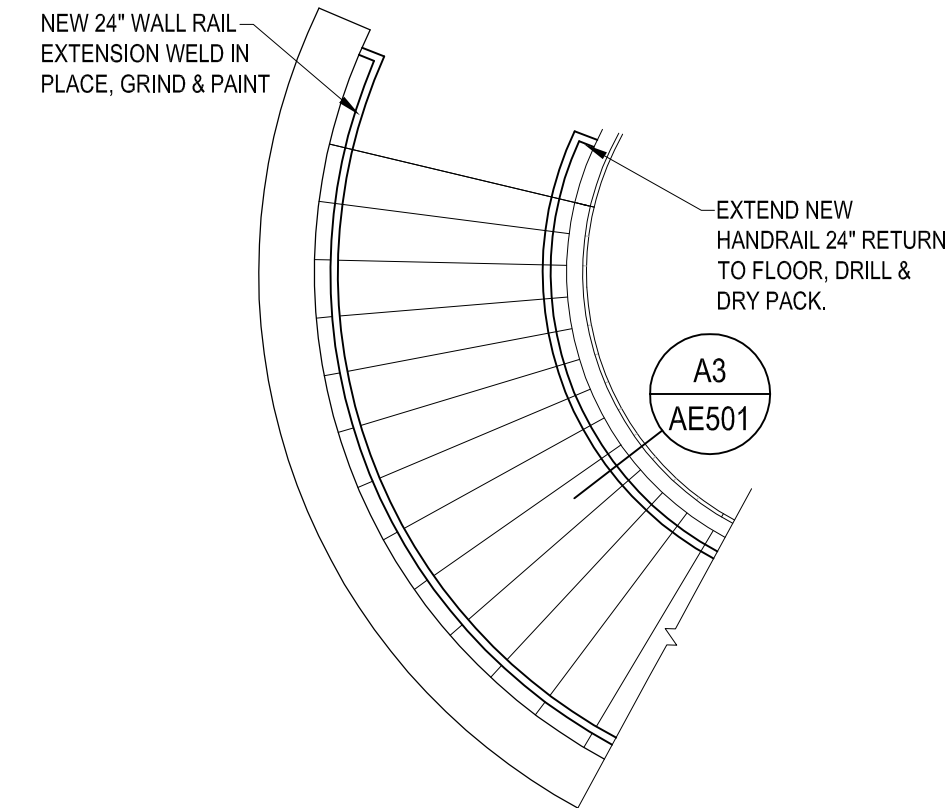
**A2** STAIRS 199 A - ALT #1  
1/4" = 1'-0"



**A3** STAIRS 199 D - ALT #1  
1/4" = 1'-0"



**A4** STAIRS 199 E - ALT #1  
1/4" = 1'-0"



**A5** STAIRS 199 - ALT #1  
1/4" = 1'-0"

TYP NOTE: PAINT THE EXISTING COMPLIANT WALL RAILINGS.

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DFCM PROJECT NO. 04040810

SEAL



A-DTVC11

MHTN PROJECT NO. 2005605

DFCM PROJECT NO. 2005605

DRAWN BY: RAL

CHECKED BY: MG

ISSUED:

| NO. | DATE    | DESCRIPTION    |
|-----|---------|----------------|
| 1   | 4.20.06 | BID PACKAGE #2 |
|     |         |                |
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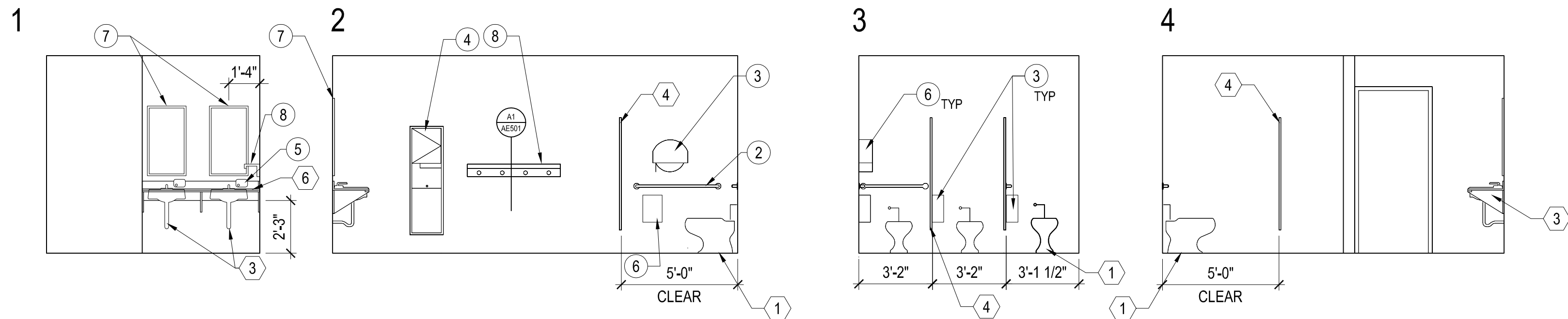
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| NO.        | DATE | DESCRIPTION |
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ENLARGED  
STAIR PLAN &  
DETAILS - ALT #1

CONSTRUCTION SET

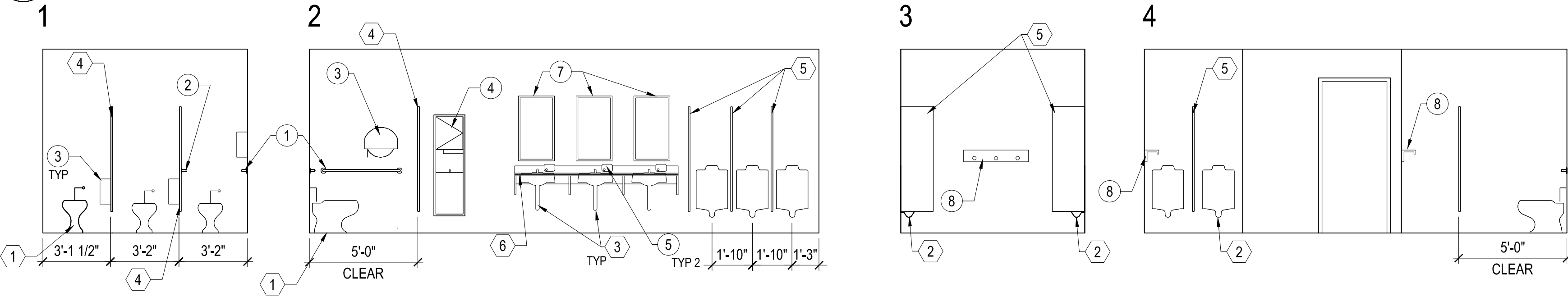
SHEET NUMBER

AE402



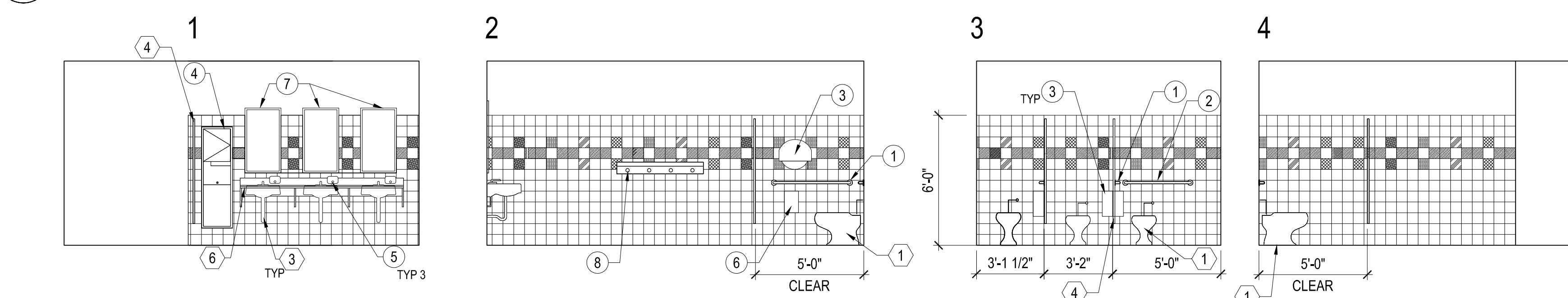
### E1 WOMEN'S ROOM #106 ELEVATION

1/4" = 1'-0"



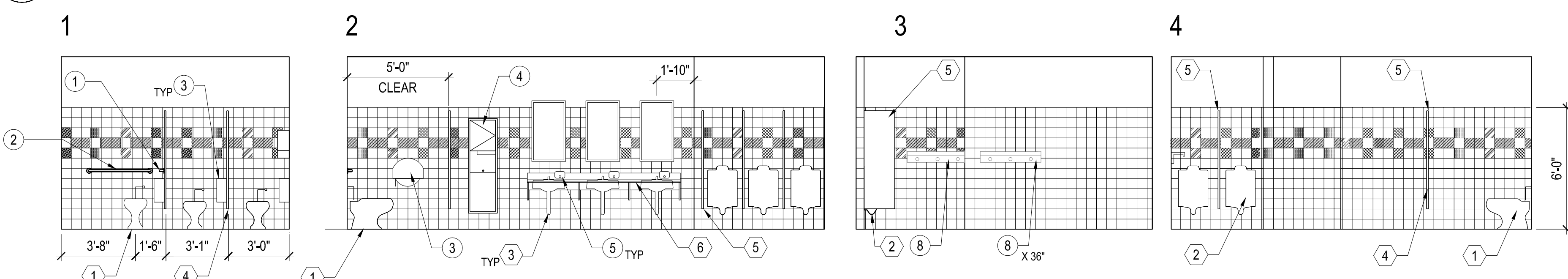
### D1 MEN'S ROOM #105 ELEVATION

1/4" = 1'-0"



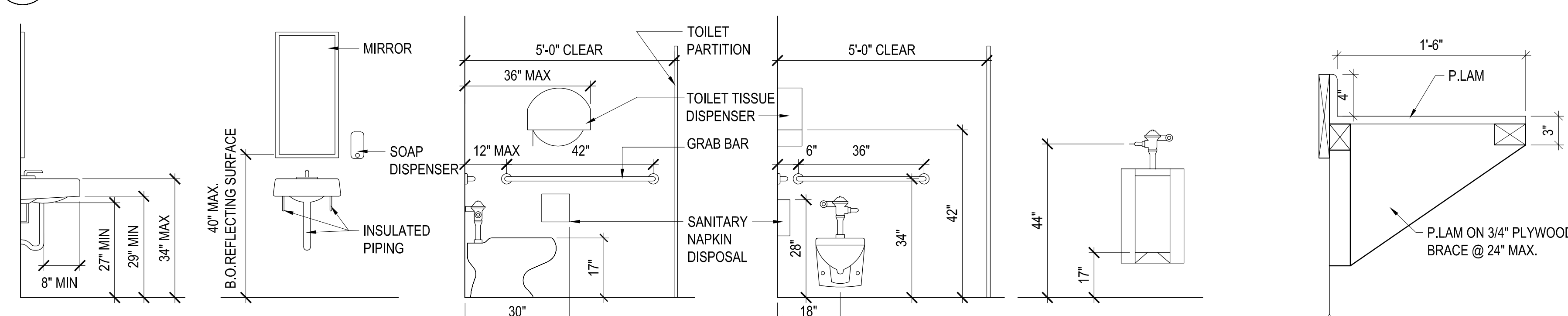
### C1 WOMEN'S ROOM #227 ELEVATION

1/4" = 1'-0"



### B1 MEN'S ROOM #226 ELEVATION

1/4" = 1'-0"



SIDE ELEVATION  
ACCESSIBLE LAVATORY

FRONT ELEVATION

SIDE ELEVATION  
ACCESSIBLE TOILET STALL

FRONT ELEVATION

FRONT ELEVATION  
ACCESSIBLE URINAL

### A2 COUNTERTOP

1 1/2" = 1'-0"

CTOP

### A3 MIRROR DETAIL

3" = 1'-0"

MIRR

## REFERENCE NOTES

- 1 ACCESSIBLE WATER CLOSET
- 2 ACCESSIBLE URINAL
- 3 ACCESSIBLE LAVATORY W/ INSULATED PIPING
- 4 FLOOR MOUNTED, OVERHEAD BRACED TOILET PARTITION (DOOR NOT SHOWN)
- 5 FLOOR MOUNTED URINAL PARTITION, 24" W.
- 6 COUNTERTOP, RE: A2/AE403

## GENERAL NOTES

1. PROVIDE STUD WALL BACKING FOR ALL SURFACE MOUNTED ACCESSORIES.
2. CEMENTITIOUS BACKER BOARD (WHERE TILE OCCURS) @ STUD WALLS
3. ALL TILE IN RESTROOMS TO BE 6'-0" HIGH INCLUDING BEHIND MIRRORS, RE: A3/AE403.
4. PATCH ANY DAMAGED EXISTING TILE WITH MATCHING TILE.
5. RE: B1/AE501 FOR WALL TILE PATTERN.
6. RE: B2/AE501 FOR FLOOR TILE PATTERN.

## ACCESSORY SCHEDULE

| NO. | ITEM                            |
|-----|---------------------------------|
| 1   | GRAB BAR (42")                  |
| 2   | GRAB BAR (36")                  |
| 3   | TOILET TISSUE DISPENSER *       |
| 4   | PAPER TOWEL DISPENSER, EXIST.   |
| 5   | SOAP DISPENSER - WALL MOUNTED * |
| 6   | SANITARY NAPKIN DISPOSAL        |
| 7   | MIRROR 30" X 40"                |
| 8   | BACKPACK SHELF, RE: A1/501      |

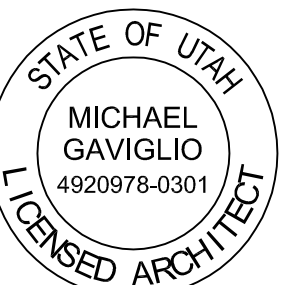
\* PROVIDED BY OWNER, INSTALLED BY GENERAL CONTRACTOR, VERIFY LOCATION & MOUNTING HGT. W/ OWNER



MHTN ARCHITECTS, INC.  
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SEAL



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| MHTN PROJECT NO. 2005605 |         |                |
| DFCM PROJECT NO. 2005605 |         |                |
| DRAWN BY: RAL            |         | CHECKED BY: MG |
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| 1                        | 4.20.06 | BID PACKAGE #2 |
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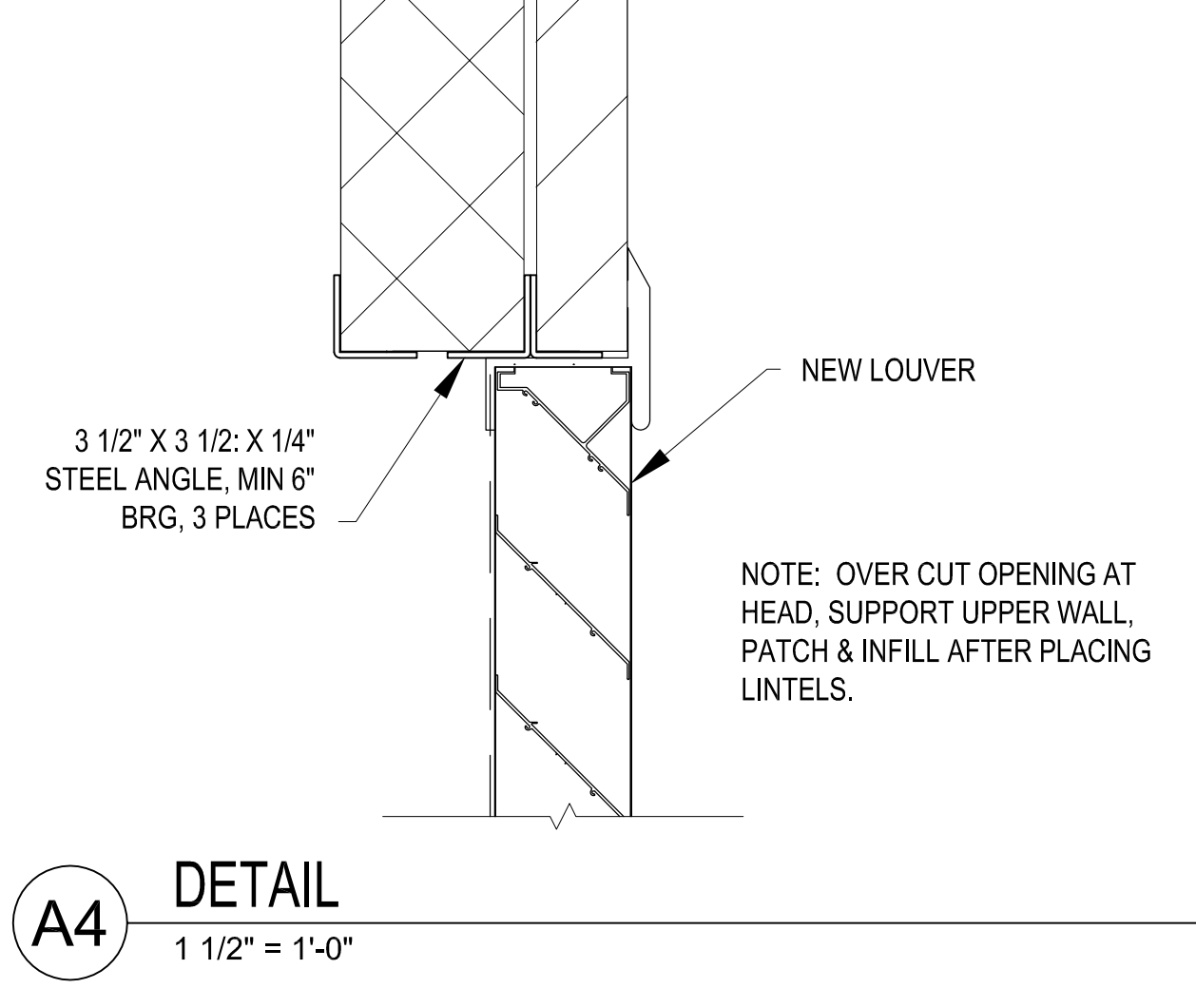
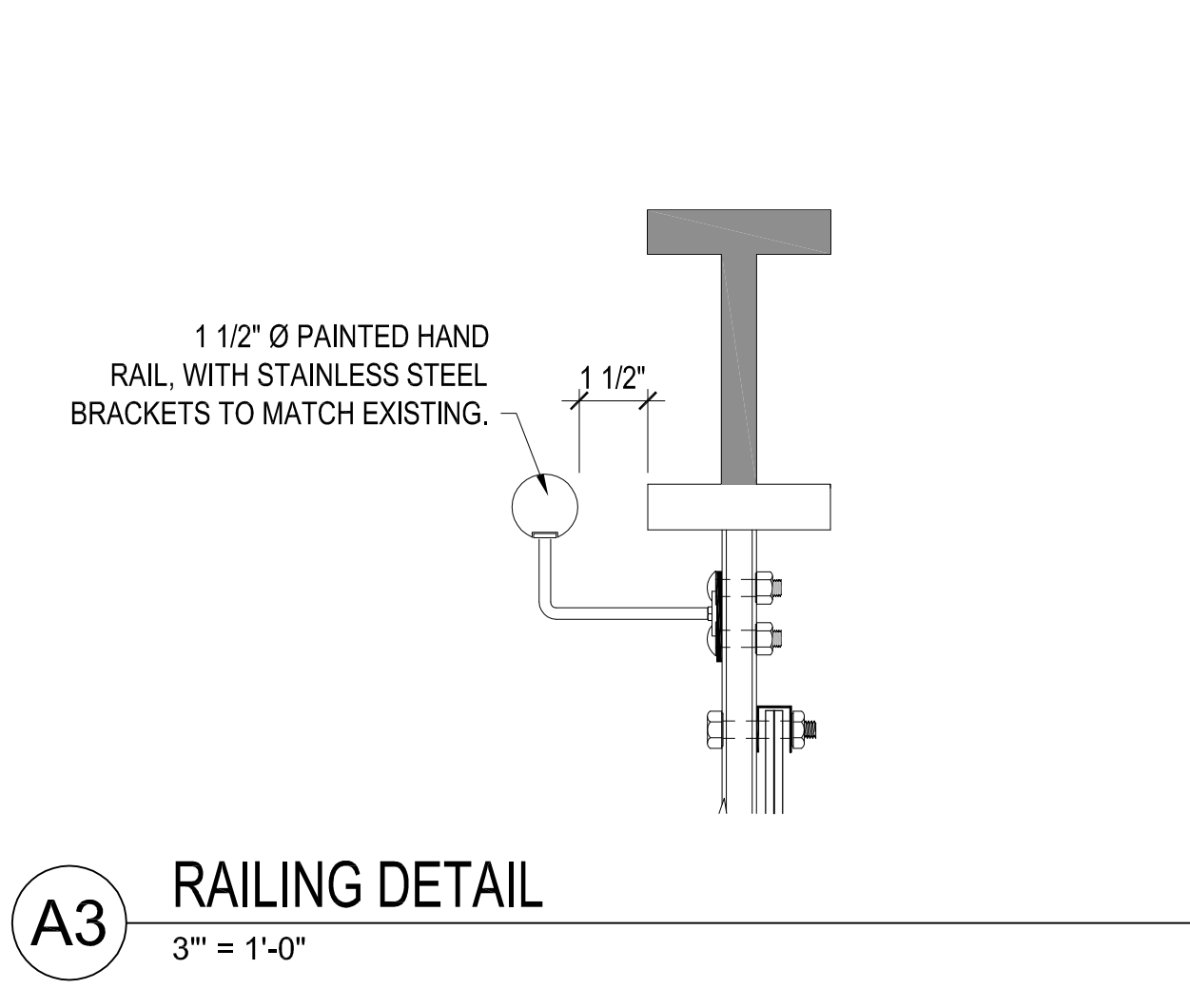
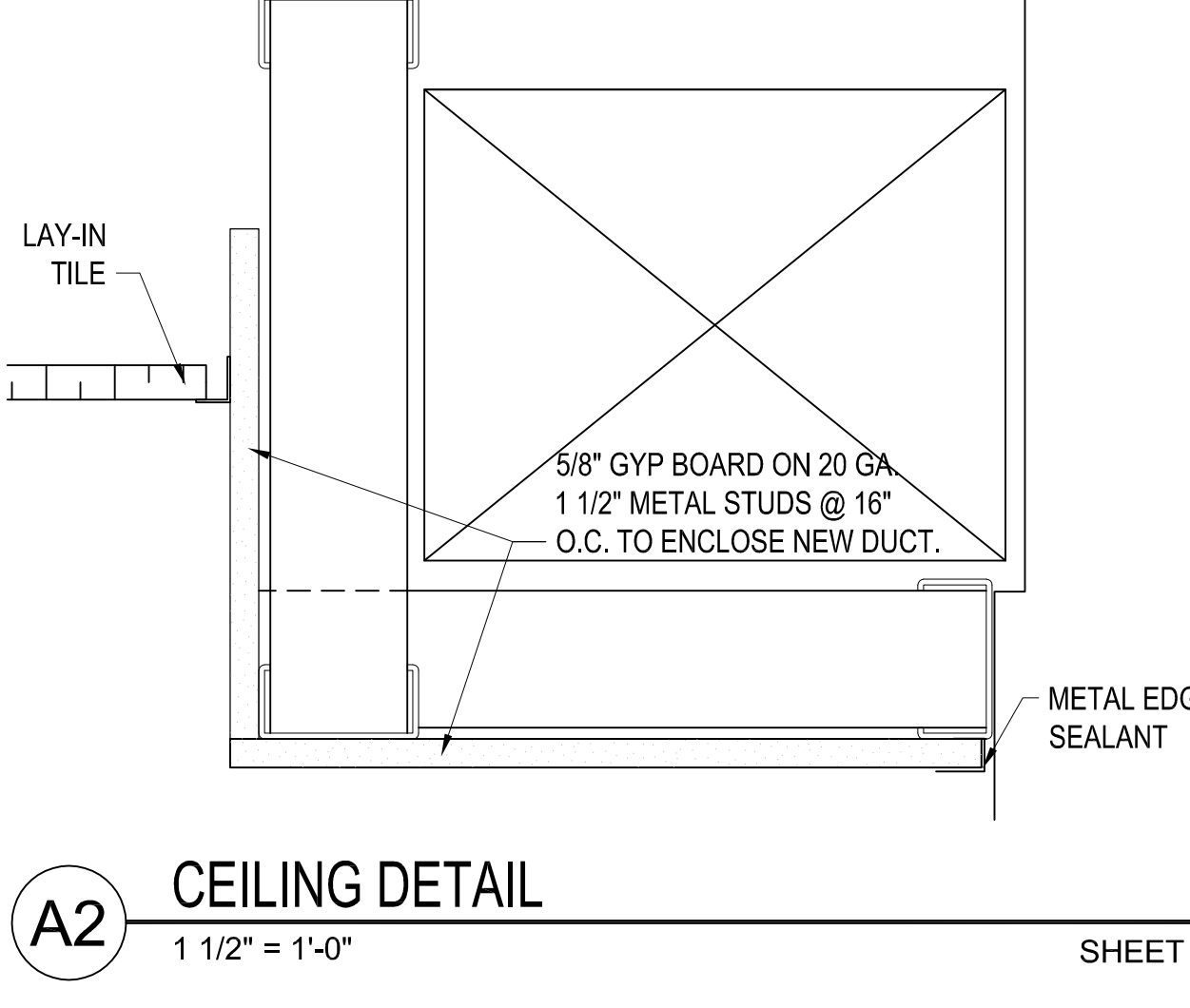
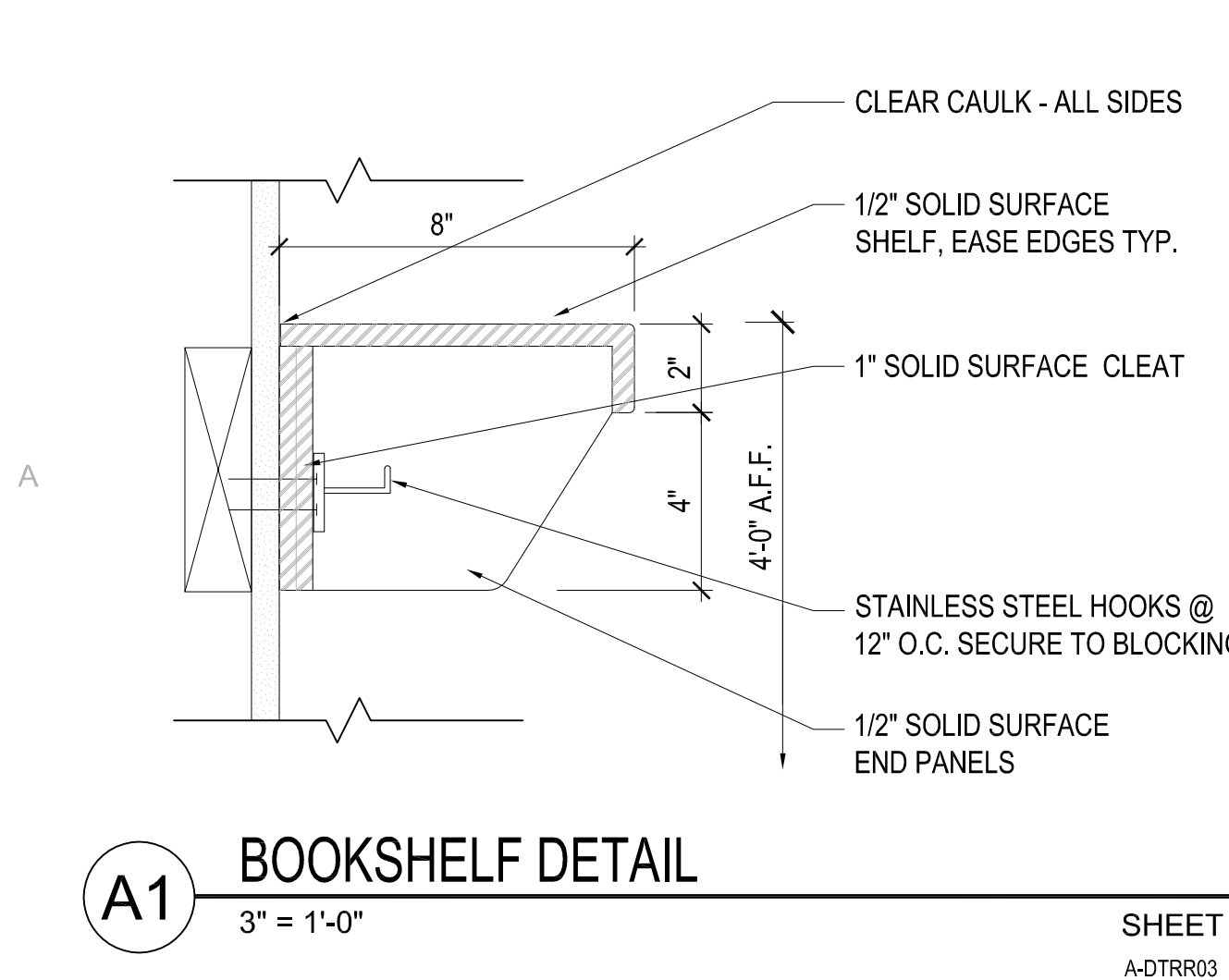
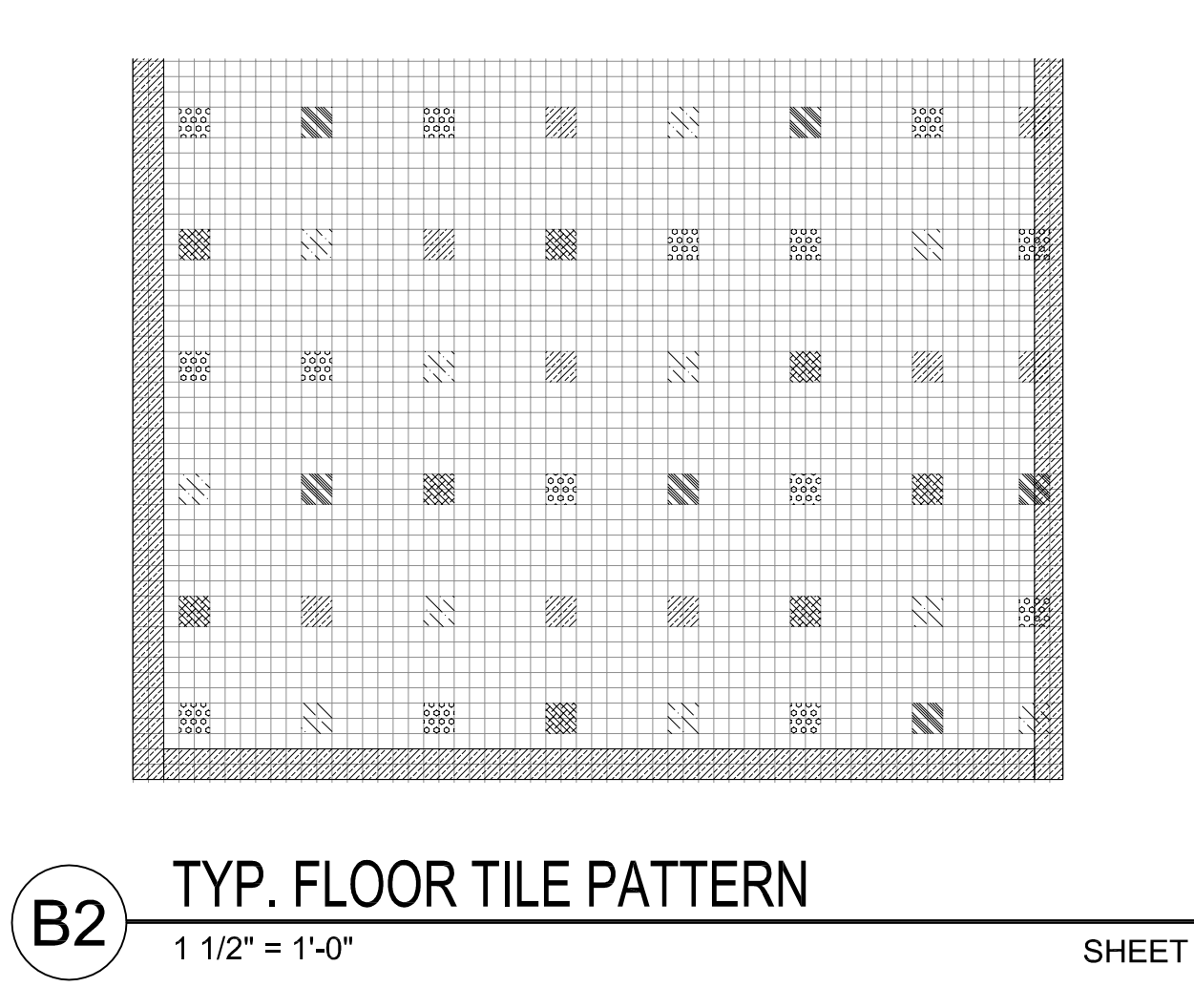
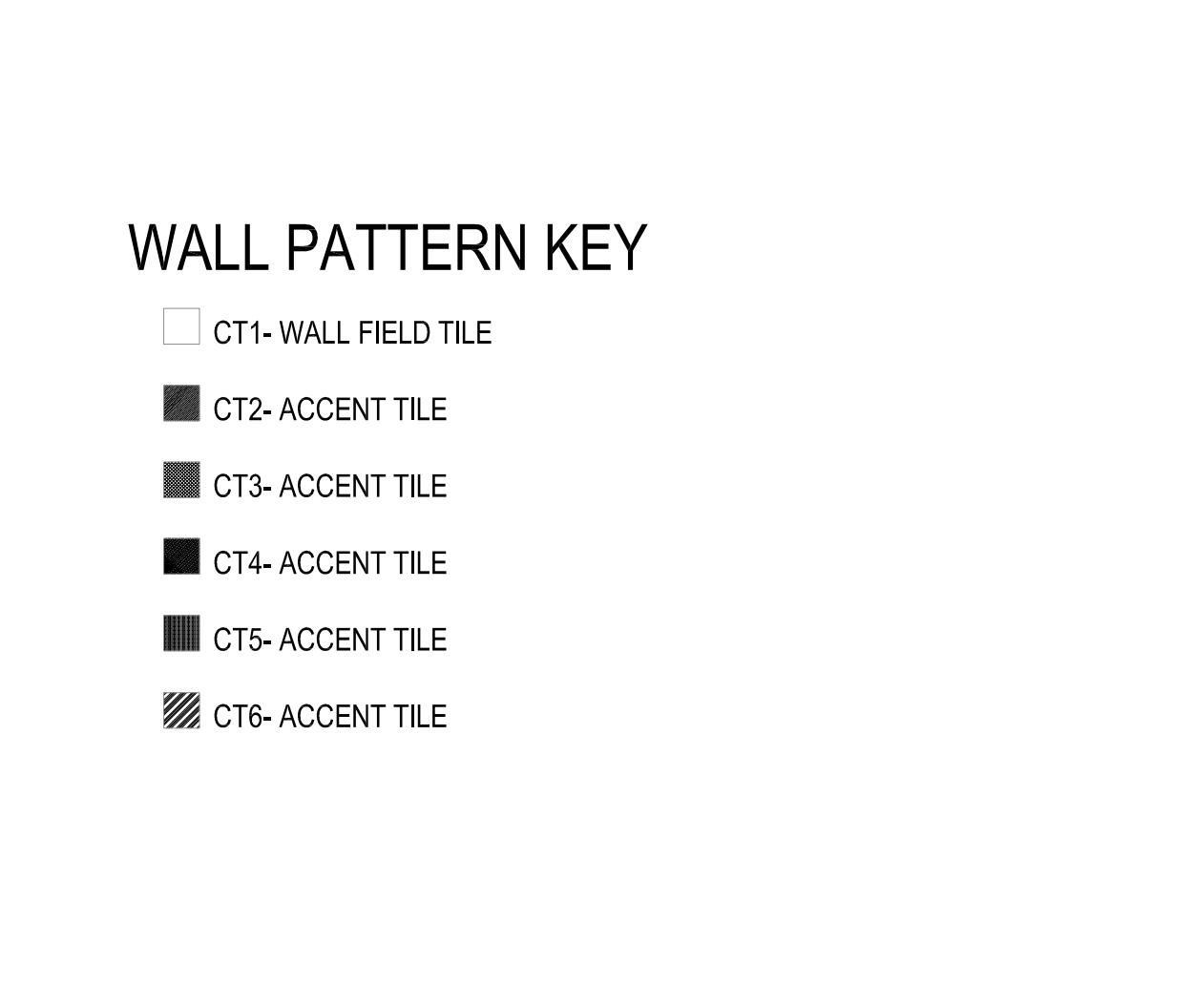
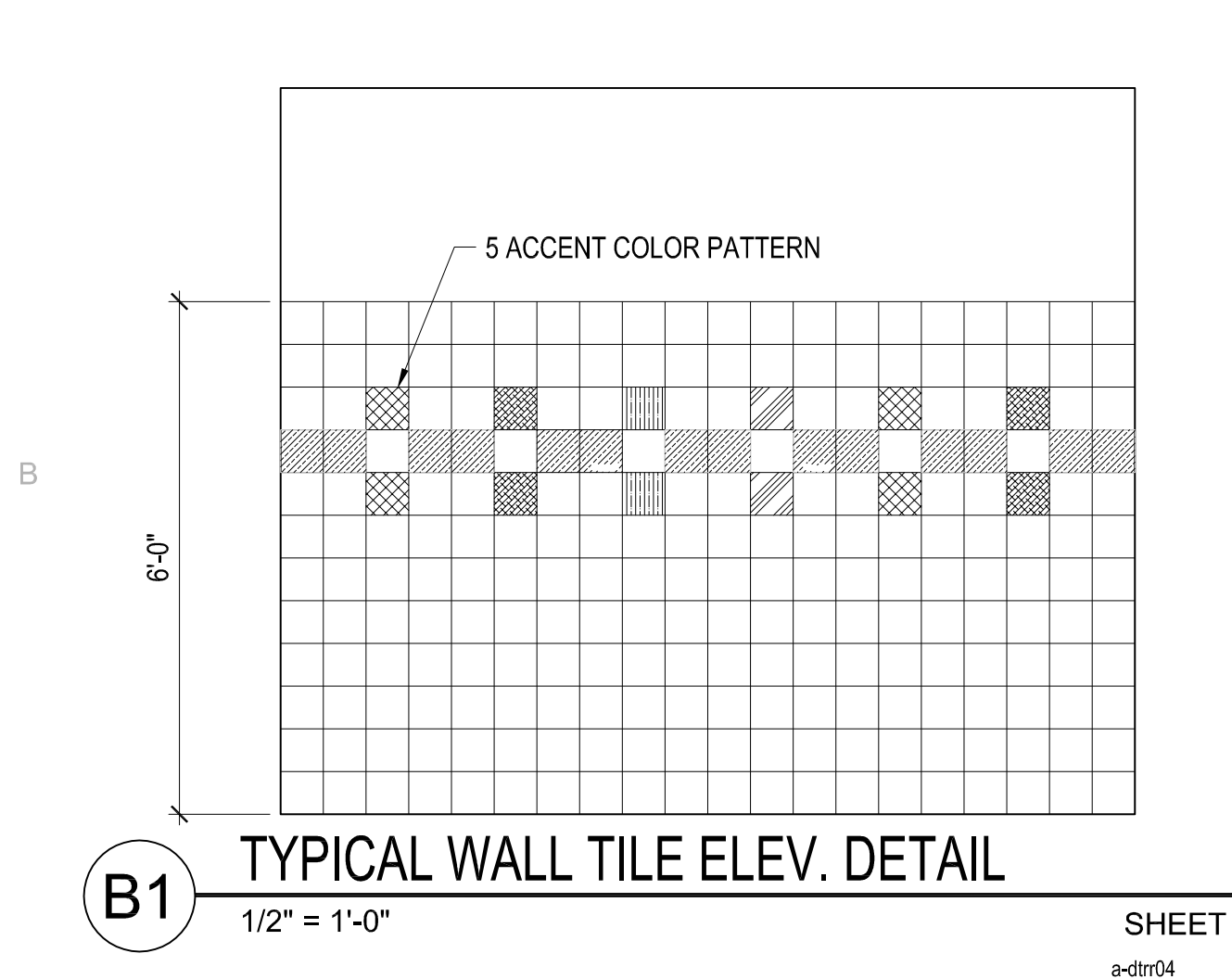
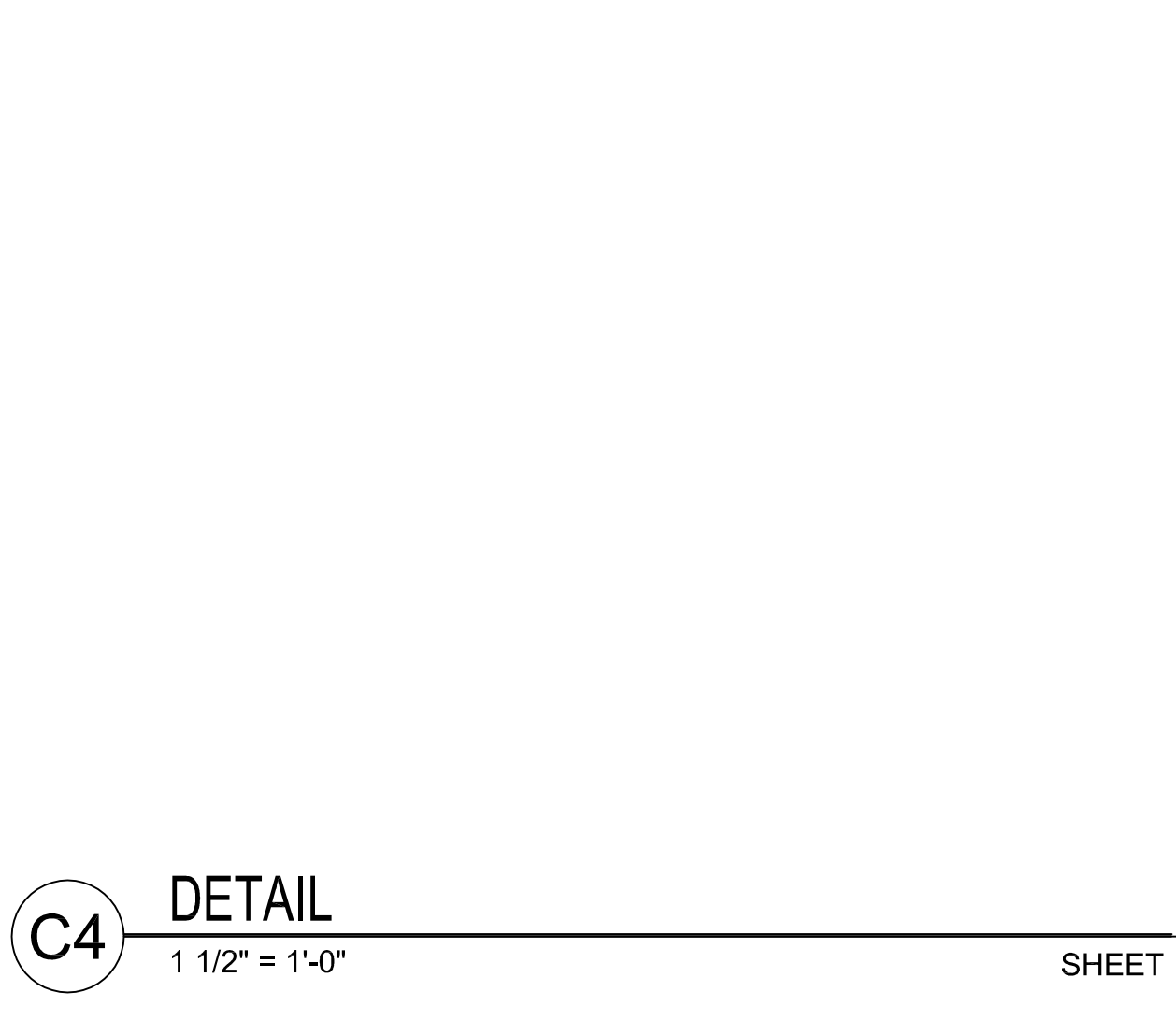
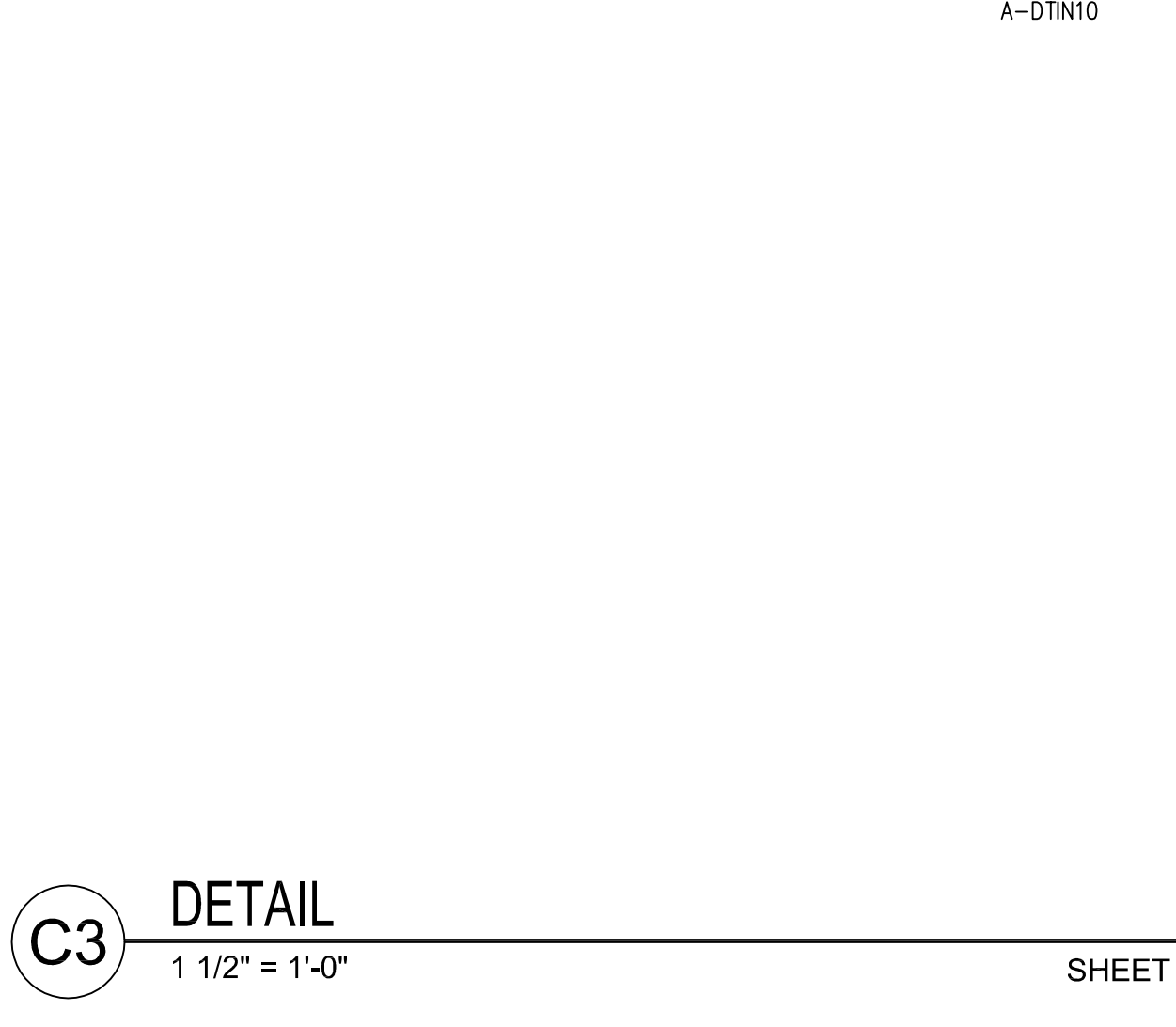
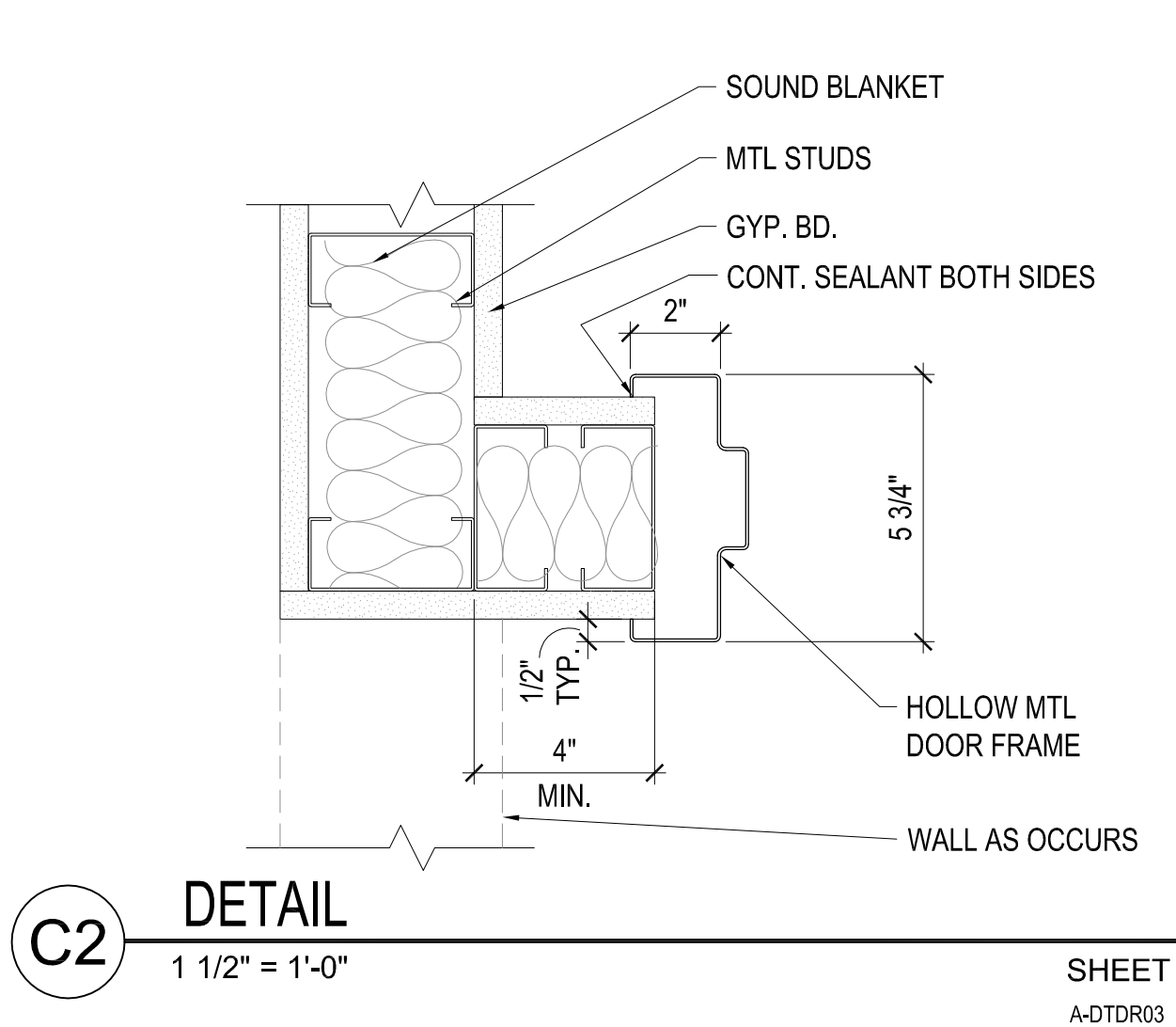
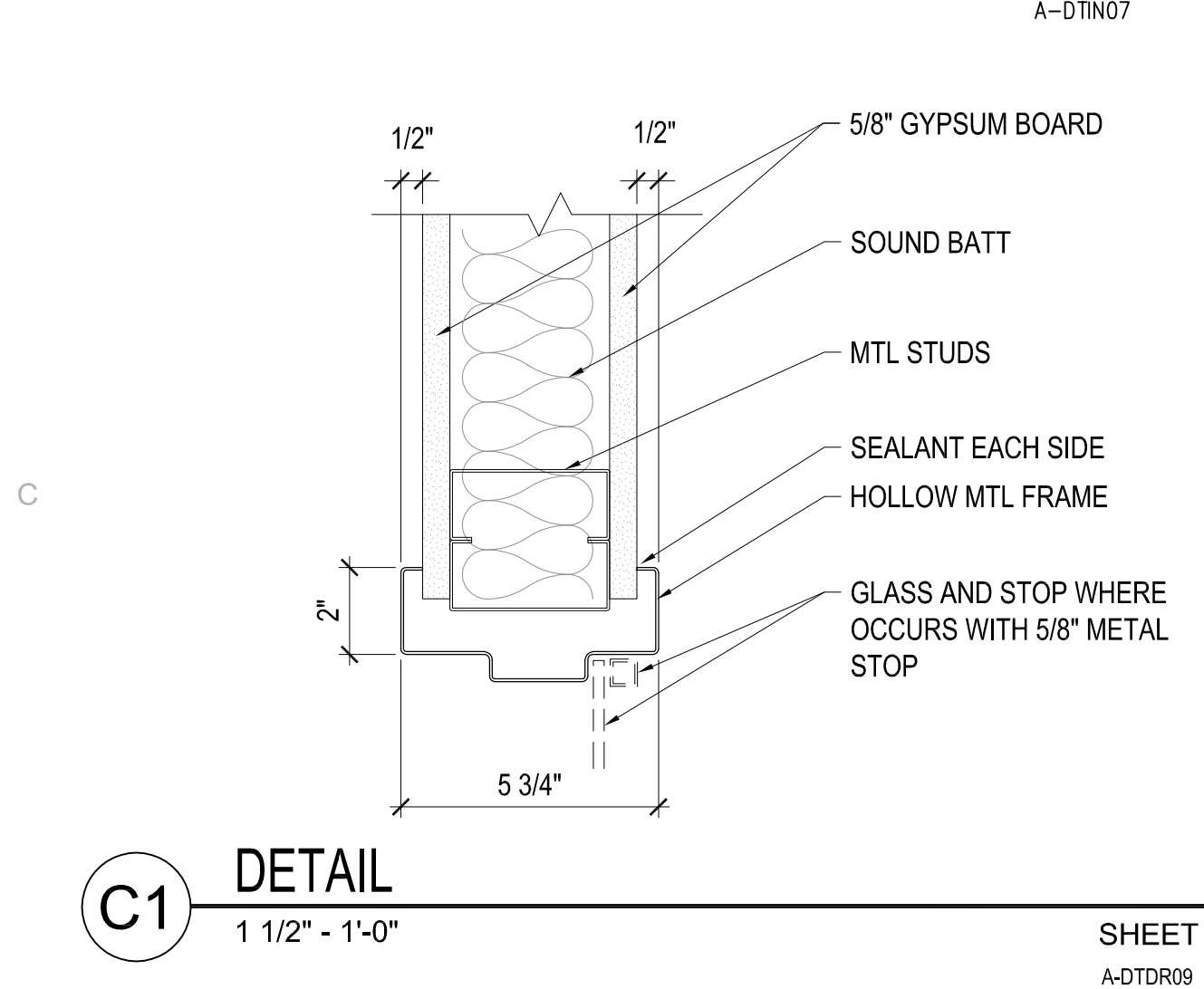
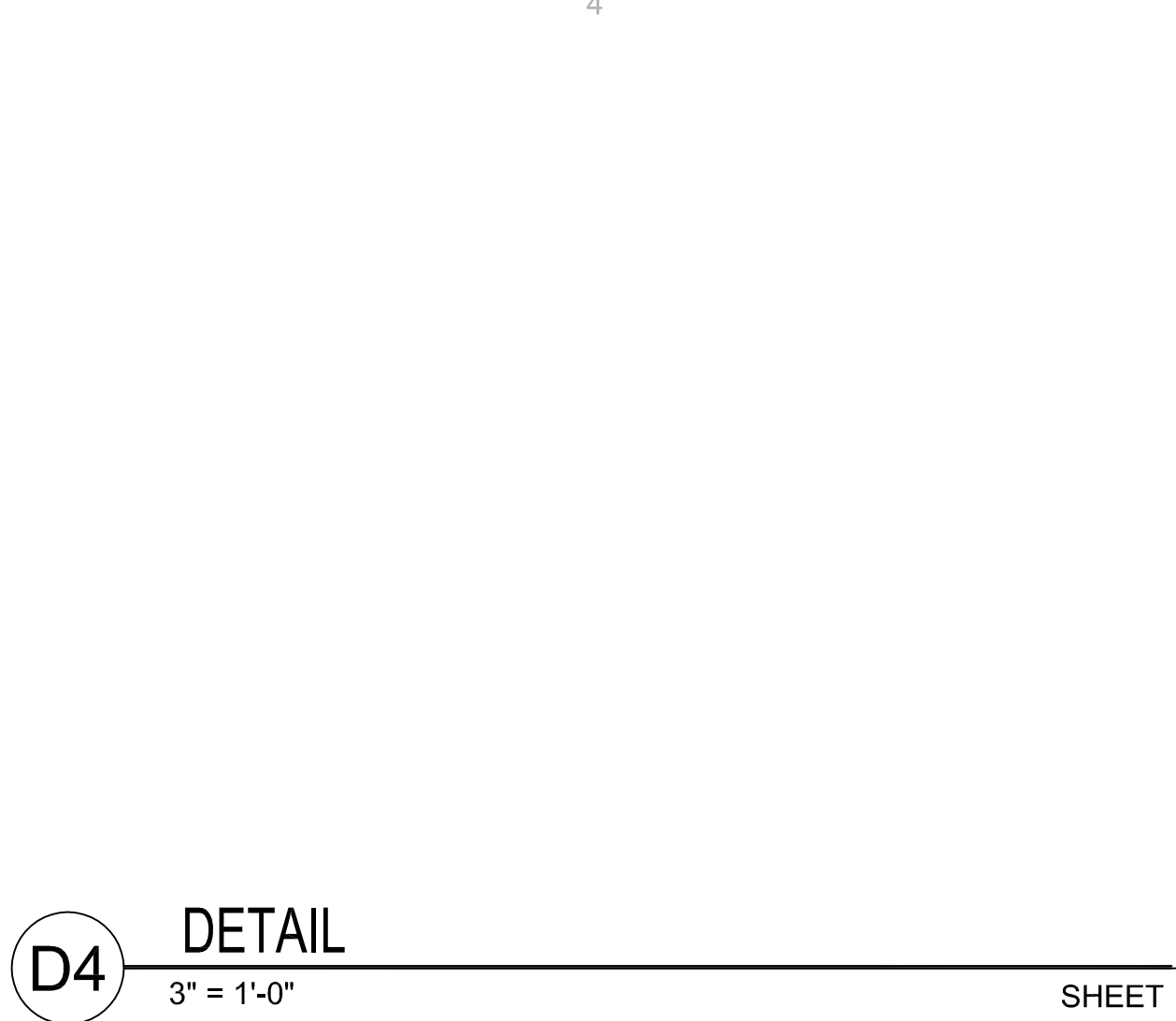
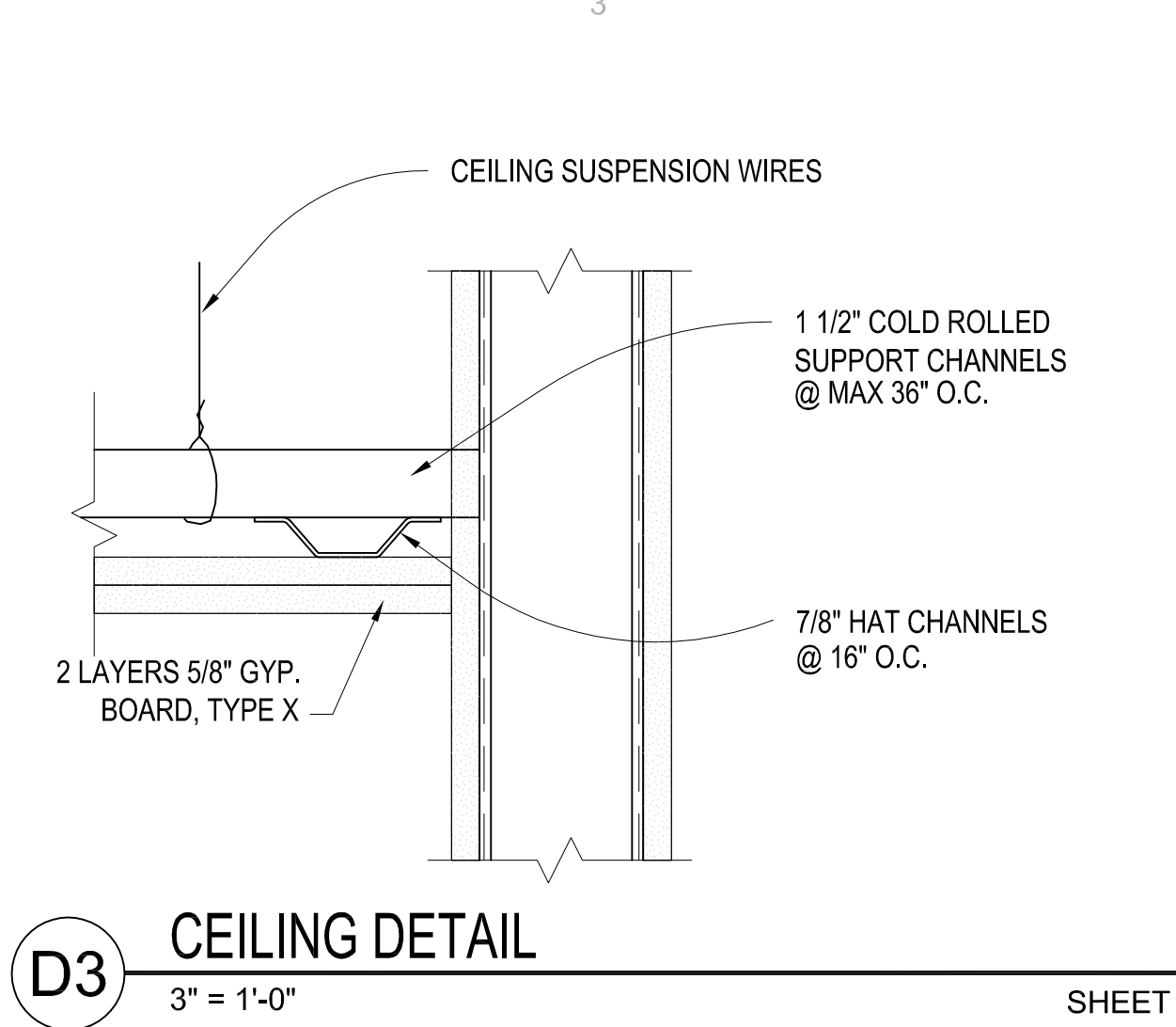
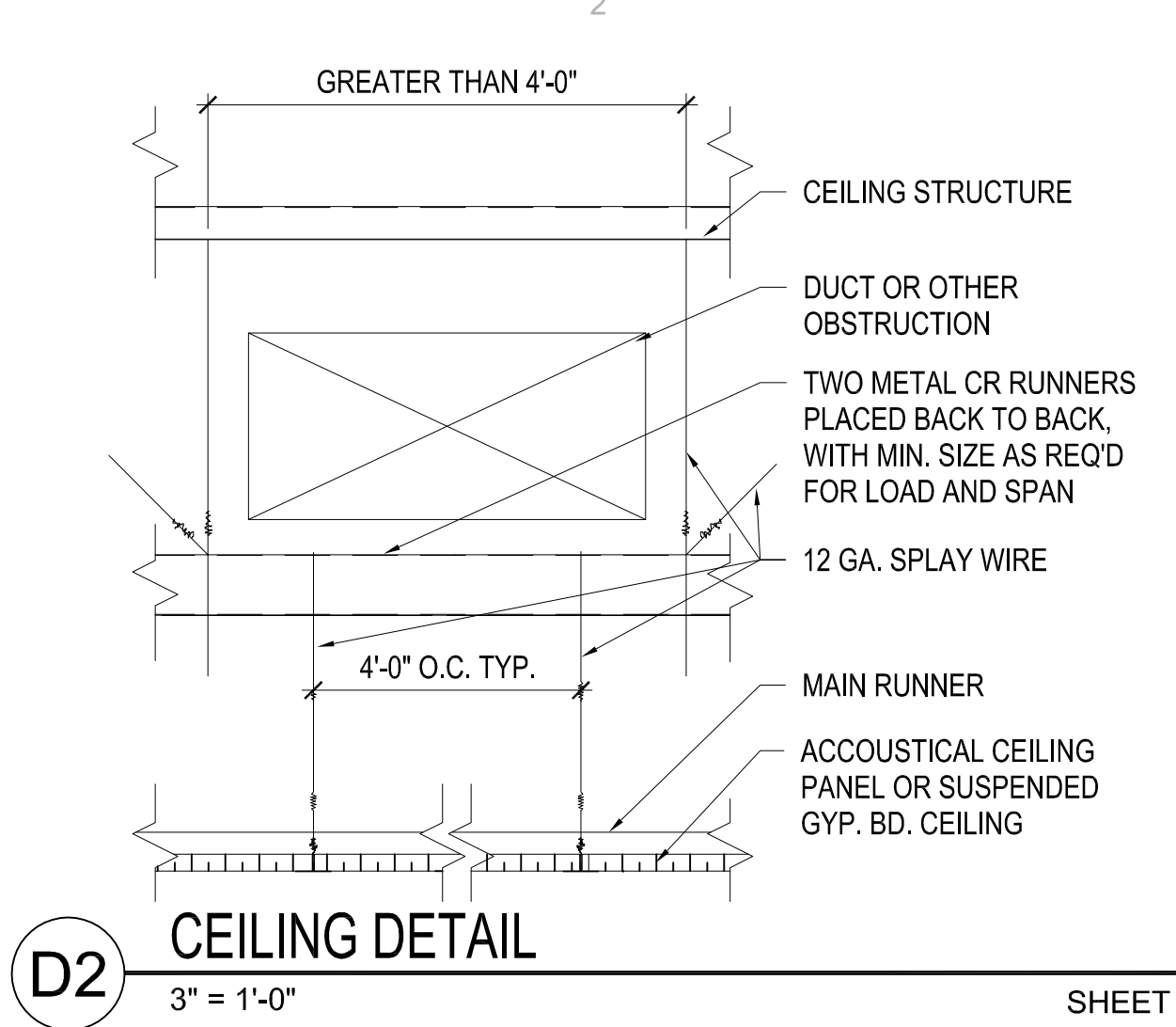
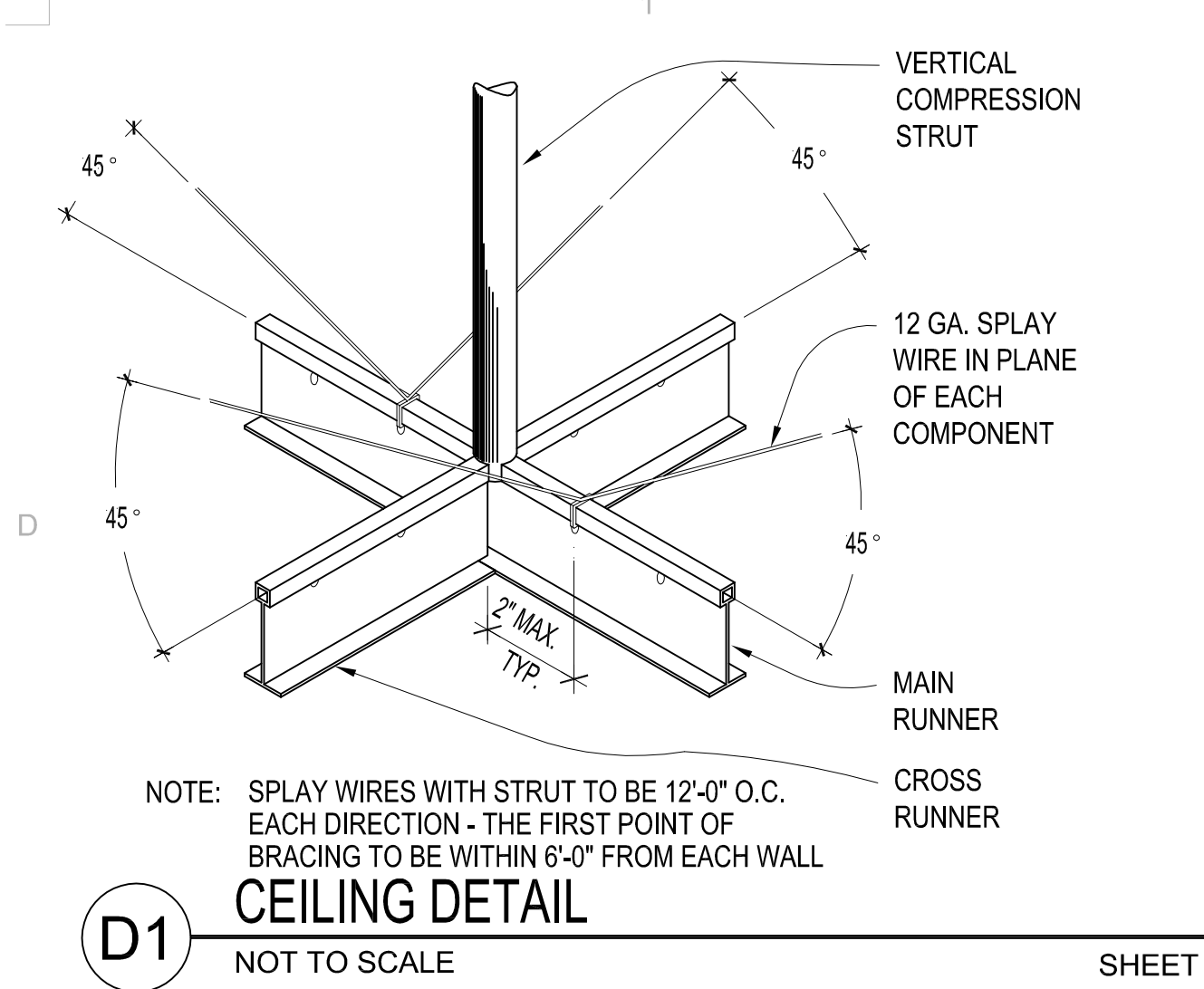
## RESTROOM ELEVATIONS

CONSTRUCTION SET

SHEET NUMBER

AE403





MHTN ARCHITECTS, INC.  
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| DRAWN BY: RAL            |      | CHECKED BY: MG |
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## DETAILS

CONSTRUCTION SET

SHEET NUMBER

AE501

By: Ruffin, Apr 20, 2024, 2:10pm  
K:\SOUTH\2005605\MSU Lind Lecture Hall Remodel\1 Drawings\AE601.dwg

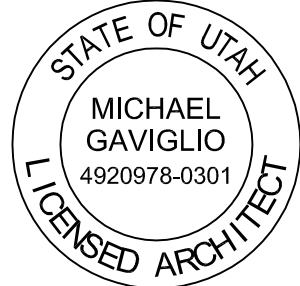
| FINISH SCHEDULE |       |           |        |             |     |          |  |  |  |      |  |  |             |              |          |      |  |           |  |  |  |            |      |              |          |           |  |  |  |         |  |      |              |          |  |       |         |  |  |  |      |              |          |  |  |  |  |  |  |      |              |          |  |  |  |  |  |  |                   |                 |                 |          |                     |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                 | RM. # | ROOM NAME | FLOOR  |             |     |          |  |  |  | BASE |  |  |             | NORTH WALL   |          |      |  | EAST WALL |  |  |  | SOUTH WALL |      |              |          | WEST WALL |  |  |  | CEILING |  |      |              |          |  | RM. # | REMARKS |  |  |  |      |              |          |  |  |  |  |  |  |      |              |          |  |  |  |  |  |  |                   |                 |                 |          |                     |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |       |           | CARPET | MOSAIC TILE | VCT | EXISTING |  |  |  |      |  |  | RUBBER BASE | CERAMIC TILE | EXISTING | NONE |  |           |  |  |  |            | PANT | CERAMIC TILE | EXISTING |           |  |  |  |         |  | PANT | CERAMIC TILE | EXISTING |  |       |         |  |  |  | PANT | CERAMIC TILE | EXISTING |  |  |  |  |  |  | PANT | CERAMIC TILE | EXISTING |  |  |  |  |  |  | PANT GYPSUM BOARD | ACOUSTICAL TILE | EXPOSED - PAINT | EXISTING | EXPOSED - NO FINISH | ALTERNATE: ACOUSTICAL SPRAY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| -              | -                                    |           |    |    |    |

| ABBREVIATIONS |                                |       |                                       |  |  |
|---------------|--------------------------------|-------|---------------------------------------|--|--|
| Ø             | ROUND OR DIAMETER              | MBH   | THOUSAND BRITISH THERMAL UNITS/HOUR   |  |  |
| AD            | ACCESS DOOR                    | MECH  | MECHANICAL                            |  |  |
| AF            | AIRFOIL                        | MIN   | MINIMUM                               |  |  |
| AFF           | ABOVE FINISHED FLOOR           | NC    | NOISE CRITERIA OR NORMALLY CLOSED     |  |  |
| ALT           | ALTERNATE                      | NIC   | NOT IN CONTRACT                       |  |  |
| BI            | BACKWARD INCLINED              | NO.   | NUMBER                                |  |  |
| BOD           | BOTTOM OF DUCT                 | NOM   | NOMINAL                               |  |  |
| BOP           | BOTTOM OF PIPE                 | NTS   | NOT TO SCALE                          |  |  |
| BTU/H         | BRITISH THERMAL UNITS PER HOUR | OA    | OUTSIDE AIR                           |  |  |
| CAP.          | CAPACITY                       | OBD   | OPPOSED BLADE DAMPER                  |  |  |
| CFM           | CUBIC FEET PER MINUTE          | OD    | OVERFLOW DRAIN                        |  |  |
| CV            | CONSTANT VOLUME                | OFCI  | OWNER FURNISHED, CONTRACTOR INSTALLED |  |  |
| DB            | DRY BULB                       | OFOI  | OWNER FURNISHED, OWNER INSTALLED      |  |  |
| DIA           | DIAMETER                       | PD    | PRESSURE DROP                         |  |  |
| DSN           | DOWN SPOUT NOZZLE              | POC   | POINT OF CONNECTION                   |  |  |
| DW            | DISHWASHER                     | PRV   | PRESSURE REDUCING VALVE               |  |  |
| (E)           | EXISTING                       | PSI   | POUNDS PER SQUARE INCH                |  |  |
| EAT           | ENTERING AIR TEMPERATURE       | PSIG  | POUNDS PER SQUARE INCH GAUGE          |  |  |
| EFF           | EFFICIENCY                     | RA    | RETURN AIR                            |  |  |
| ELEV          | ELEVATION                      | RAD   | RADIUS                                |  |  |
| ENCL          | ENCLOSURE                      | RD    | ROOF DRAIN                            |  |  |
| ESP           | EXTERNAL STATIC PRESSURE       | RPBP  | REDUCED PRESSURE BACKFLOW PREVENTER   |  |  |
| ET            | EXPANSION TANK                 | SA    | SUPPLY AIR                            |  |  |
| EWC           | ELECTRIC WATER COOLER          | SEN   | SENSIBLE                              |  |  |
| EWI           | ENTERING WATER TEMPERATURE     | SIM   | SIMILAR                               |  |  |
| FCO           | FLOOR CLEANOUT                 | SL    | SEA LEVEL                             |  |  |
| FD            | FLOOR DRAIN                    | SP    | STATIC PRESSURE                       |  |  |
| FPM           | FEET PER MINUTE                | SQ FT | SQUARE FEET                           |  |  |
| FS            | FLOOR SINK                     | SS    | SERVICE SINK OR STAINLESS STEEL       |  |  |
| FT            | FEET                           | TOD   | TOP OF DUCT                           |  |  |
| FV            | FACE VELOCITY                  | TSP   | TOTAL STATIC PRESSURE                 |  |  |
| GA            | GAUGE                          | U     | URINAL                                |  |  |
| GAL           | GALLON                         | VAV   | VARIABLE AIR VOLUME                   |  |  |
| GD            | GARAGE DRAIN                   | VD    | VOLUME DAMPER                         |  |  |
| GPM           | GALLONS PER MINUTE             | VFD   | VARIABLE FREQUENCY DRIVE              |  |  |
| HP            | HORSEPOWER                     | VOL   | VOLUME                                |  |  |
| HR            | HOUR                           | VTR   | VENT THROUGH ROOF                     |  |  |
| HT            | HEIGHT                         | W/    | WITH                                  |  |  |
| IN.           | INCH                           | W/O   | WITHOUT                               |  |  |
| INWC          | INCHES OF WATER COLUMN         | WB    | WET BULB                              |  |  |
| INWG          | INCHES OF WATER GAUGE          | WC    | WATER CLOSET                          |  |  |
| L             | LAVATORY OR LOUVER             | MVD   | MANUAL VOLUME DAMPER                  |  |  |
| LAT           | LEAVING AIR TEMPERATURE        | WCO   | WALL CLEANOUT                         |  |  |
| LBS           | POUNDS                         | WPD   | WATER PRESSURE DROP                   |  |  |
| LWT           | LEAVING WATER TEMPERATURE      | WT    | WEIGHT                                |  |  |
| MAX           | MAXIMUM                        |       |                                       |  |  |

ALTITUDE: 4,455 FT

SITE ATMOSPHERIC PRESSURE: 12.5 P.S.I.

| MECHANICAL LEGEND                          |  |                                       |  |
|--|--|---------------------------------------|--|
| NOTE: ALL ITEMS MAY NOT APPEAR ON DRAWINGS |  |                                       |  |
| GATE VALVE                                 |  | OVERFLOW DRAIN PIPING                 |  |
| OS & Y PATTERN GATE VALVE                  |  | STORM DRAIN PIPING ABOVE GRADE        |  |
| BALL VALVE                                 |  | STORM DRAIN PIPING BELOW GRADE        |  |
| BUTTERFLY VALVE                            |  | FIRE SERVICE                          |  |
| MOTORIZED VALVE OPERATOR                   |  | NATURAL GAS                           |  |
| GAS COCK                                   |  | HEAT TRACING                          |  |
| PLUG VALVE                                 |  | CHILLED WATER SUPPLY                  |  |
| CHECK VALVE (SWING OR LIFT AS REQ'D)       |  | CHILLED WATER RETURN                  |  |
| SOLENOID VALVE                             |  | CONDENSER WATER SUPPLY                |  |
| AUTOMATIC CONTROL VALVE (2-WAY)            |  | CONDENSER WATER RETURN                |  |
| AUTOMATIC CONTROL VALVE (3-WAY)            |  | HEATING WATER SUPPLY                  |  |
| PRESSURE REDUCING VALVE                    |  | HEATING WATER RETURN                  |  |
| P & T RELIEF VALVE                         |  | RADIANT FLOOR SUPPLY                  |  |
| AIR VENT (AUTOMATIC)                       |  | RADIANT FLOOR RETURN                  |  |
| CURB COCK                                  |  | STEAM                                 |  |
| THERMAL EXPANSION VALVE                    |  | REFRIGERANT LIQUID                    |  |
| STRAINER                                   |  | REFRIGERANT SUCTION                   |  |
| CALIBRATED BALANCE VALVE                   |  | HOT GAS                               |  |
| VENTURI FLOW METER                         |  | HOT GAS BYPASS                        |  |
| REDUCER                                    |  | DUCT SIZE, FIRST FIGURE IS SIDE SHOWN |  |
| PET COCK OR GAUGE COCK                     |  | BURIED OR UNDERFLOOR DUCT             |  |
| PRESSURE GAUGE W/GAUGE COCK                |  | DUCT W/ ACOUSTICAL LINING             |  |
| THERMOMETER                                |  | FLEXIBLE DUCT (HELICAL)               |  |
| TEMPERATURE & PRESSURE TEST PLUG           |  | SPIN-IN FITTINGS W/MVD                |  |
| IN-LINE PUMP                               |  | FLEXIBLE DUCT CONNECTION              |  |
| FLOW SWITCH                                |  | SUPPLY SLOT DIFFUSER                  |  |
| AQUASTAT                                   |  | SUPPLY DIFFUSER                       |  |
| HOSE BIBB OR SILLCOCK                      |  | RETURN GRILLE                         |  |
| YARD HYDRANT                               |  | RADIAL SUPPLY DIFFUSERS               |  |
| FLOOR DRAIN                                |  | RETURN AIR DUCT SECTION               |  |
| FLOOR SINK                                 |  | RETURN AIR DUCT UP                    |  |
| MANHOLE                                    |  | RETURN AIR DUCT DOWN                  |  |
| WALL CLEANOUT                              |  | SUPPLY AIR DUCT SECTION               |  |
| FLOOR OR GRADE CLEANOUT                    |  | SUPPLY AIR DUCT UP                    |  |
| GRADE CLEANOUT W/ CONCRETE PAD             |  | SUPPLY AIR DUCT DOWN                  |  |
| VENT THROUGH ROOF                          |  | EXHAUST AIR DUCT SECTION              |  |
| POST TYPE FDC CONNECTION                   |  | EXHAUST AIR DUCT UP                   |  |
| WALL TYPE FDC CONNECTION                   |  | EXHAUST AIR DUCT DOWN                 |  |
| FIRE HOSE CABINET                          |  | ACCESS PANEL                          |  |
| FIRE DEPT. HORN & LIGHT                    |  | MANUAL VOLUME DAMPER                  |  |
| EXPANSION JOINT                            |  | GRAVITY BACKDRAFT DAMPER              |  |
| FLEXIBLE PIPE CONNECTION                   |  | MOTORIZED DAMPER                      |  |
| REDUCED PRESSURE BACKFLOW PREVENTER        |  | FIRE DAMPER                           |  |
| DIRECTION OF FLOW                          |  | SMOKE DAMPER                          |  |
| ELBOW DOWN                                 |  | COMBINATION FIRE/SMOKE DAMPER         |  |
| ELBOW UP                                   |  | DUCT TRANSITION                       |  |
| PIPE CAP                                   |  | ELBOW W/ TURNING VANES                |  |
| TEE DOWN                                   |  | TEE W/ 45° ENTRY                      |  |
| UNION                                      |  | WYE W/ 45° ENTRY                      |  |
| DOMESTIC COLD WATER                        |  | THERMOSTAT OR TEMP SENSOR             |  |
| DOMESTIC HOT WATER                         |  | HUMIDISTAT OR HUMIDITY SENSOR         |  |
| HOT WATER CIRC.                            |  | POINT OF REMOVAL FROM EXISTING        |  |
| TEMPERED WATER                             |  | POINT OF CONNECTION TO EXISTING       |  |
| SANITARY (PLBG) VENT                       |  | DETAIL TAG                            |  |
| SANITARY SEWER ABOVE GRADE                 |  | KEYED NOTE                            |  |
| SANITARY SEWER BELOW GRADE                 |  | SECTION CUT LINE                      |  |
| DRAIN                                      |  |                                       |  |
| ROOF DRAIN PIPING                          |  |                                       |  |

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WEBER STATE UNIVERSITY  
OGDEN CAMPUS OGDEN, UTAH  
UTAH STATE DIVISION OF  
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DFCM PROJECT NO. 04040810

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| MHTN PROJECT NO. _____   |         |                 |
| DFCM PROJECT NO. 2005605 |         |                 |
| DRAWN BY: GR             |         | CHECKED BY: BRC |
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| NO.                      | DATE    | DESCRIPTION     |
| 1                        | 4/11/06 | 95% REVIEW SET  |
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LEGENDS AND ABBREVIATIONS

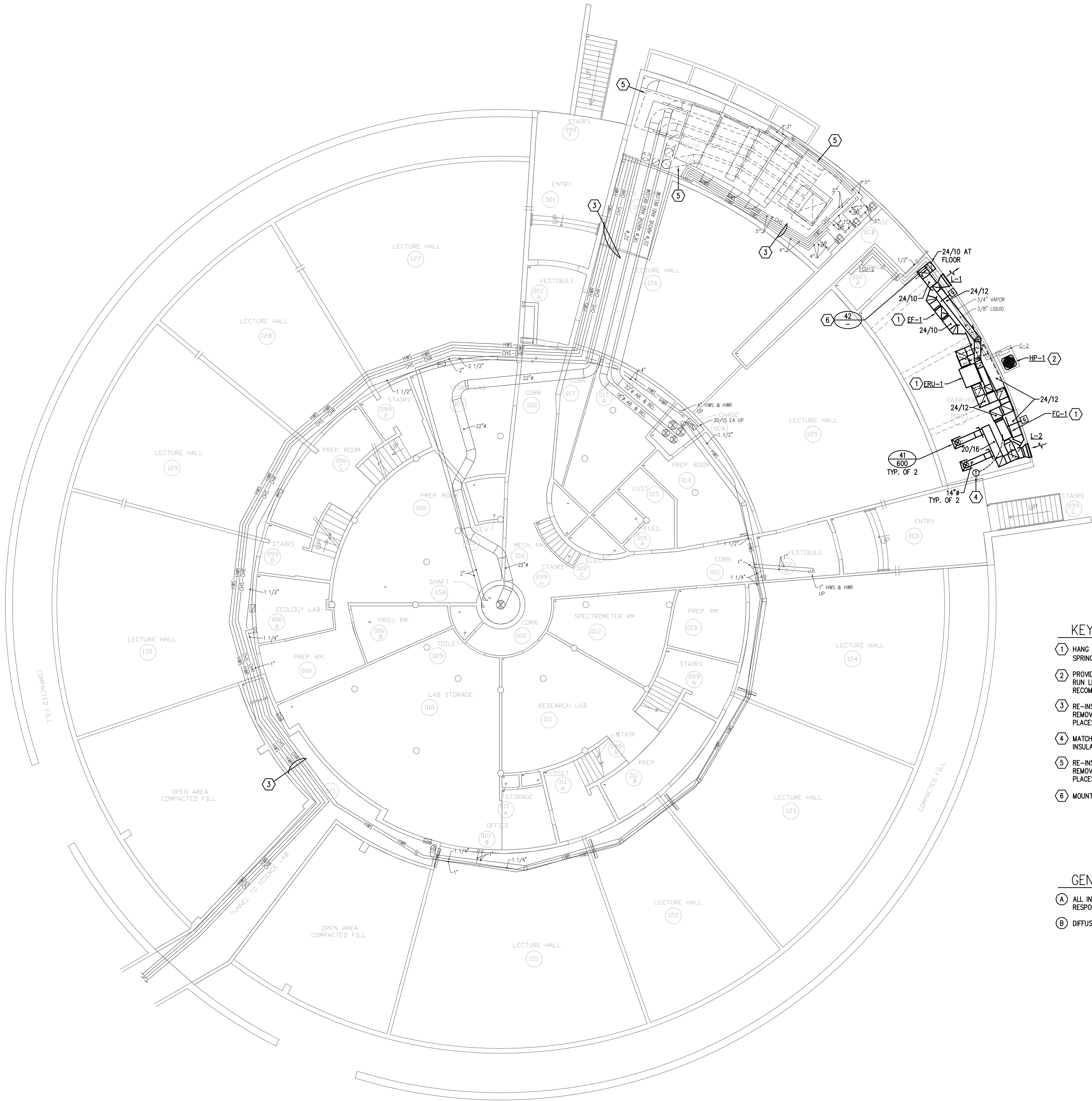
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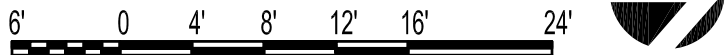
MH001



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1 GROUND FLOOR MECHANICAL REMODEL PLAN  
SCALE: 3/32" = 1'-0"

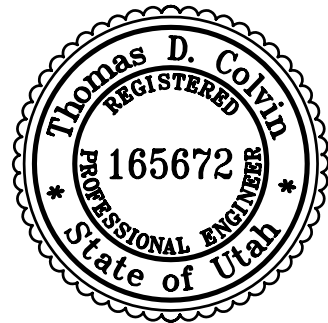


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GROUND FLOOR  
MECHANICAL  
REMODEL PLAN

CD DOCUMENTS  
DATE 4/20/06

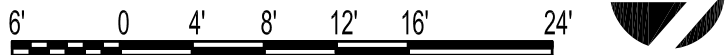
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1 FIRST FLOOR MECHANICAL REMODEL PLAN  
SCALE: 3/32" = 1'-0"



KEYED NOTES

- 1 CONNECT EXISTING PIPING TO NEW CONVECTOR SAME SIZE.  
2 MATCH EXISTING CONTROLS IN BUILDING AND TIE INTO EXISTING CONTROL SYSTEM.

GENERAL NOTES

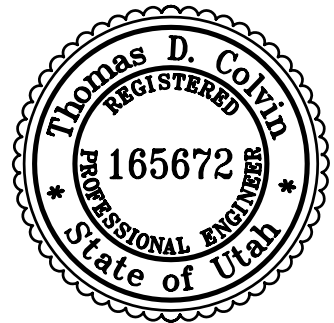
- A ALL INSTALLATION REQUIRING CONCRETE CUTTING WILL BE RESPONSIBILITY OF THIS CONTRACTOR.

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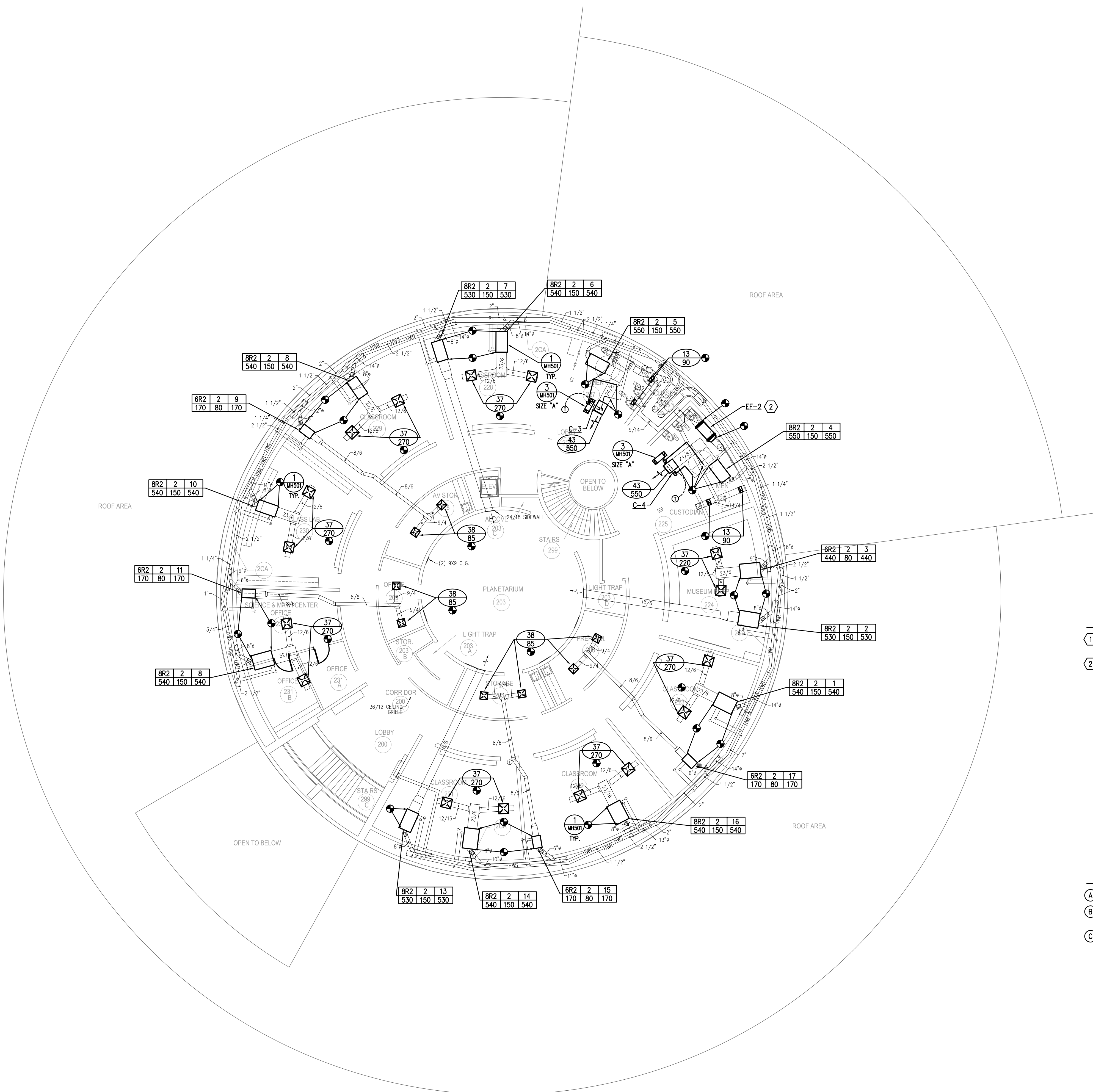
FIRST FLOOR  
MECHANICAL  
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MH201

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KEYED NOTES

- 1 REINSTALL EXISTING CONTROLS AND EXTEND WIRING AS REQUIRED.
- 2 HANG UNIT FROM STRUCTURE WITH ALL THREAD ROD AND SPRING VIBRATION ISOLATORS AT (4) PLACES TYPICAL.

GENERAL NOTES

- A TRANSITION TO GRILLES AND DIFFUSERS AS REQUIRED.
- B ALL INSTALLATION REQUIRING CONCRETE CUTTING WILL BE RESPONSIBILITY OF THIS CONTRACTOR.
- C CONNECT ALL NEW VAV BOXES TO EXISTING PIPING AS REQUIRED.

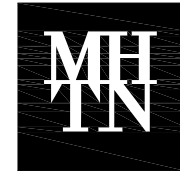
1 SECOND FLOOR MECHANICAL REMODEL PLAN

SCALE: 3/32" = 1'-0"

6" 0 4' 8' 12' 16' 24'

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SECOND FLOOR  
MECHANICAL  
REMODEL PLAN

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2-WAY MODULATING CONTROL VALVE  
CIRCUIT SETTER (100% SHUTOFF TYPE)  
BALL VALVE (TYP.)  
HWR  
HWS  
STRAINER  
MANUAL AIR VENT AT HIGH POINTS  
HEATING COIL IN VAV BOX  
P & T PLUG (LOCATED AS CLOSE TO COIL CONNECTIONS AS POSSIBLE)

NOTE: PIPING AND VALVES SHALL BE LOCATED TO PROVIDE EASY ACCESS FOR SERVICING. DO NOT BLOCK ACCESS TO VAV BOX CONTROLLER OR DAMPER OPERATOR.

#10 X 3/4" SELF TAPPING CADMIUM PLATED SHEET METAL SCREWS ALL STRAPS TO BE TIGHT AGAINST DUCT AND SUPPORT MEMBERS (TYPICAL)

HANGER STRAPS  
INSULATED SHEET METAL DUCT  
BALANCE DAMPER WITH LOCKING QUADRANT  
ROUND RIGID DUCT  
NO POP RIVETS ALLOWED  
WRAP ALL RIGID DUCT W/FOIL FACED 1 1/2" FIBERGLASS DUCT WRAP  
FASTEN RIGID DUCT TO SPIN-IN FITTING WITH SHEET METAL SCREWS

| SIZE | OPENING (INXIN) | W (IN) | H (IN) | MAX. TRANSFER (CFM) | APPROX. ΔP (INWC) |
|------|-----------------|--------|--------|---------------------|-------------------|
| A    | 12 X 6          | 12     | 6      | 230                 | 0.02              |
| B    | 12 X 12         | 12     | 6      | 380                 | 0.02              |
| C    | 24 X 6          | 24     | 6      | 400                 | 0.02              |
| D    | 24 X 12         | 24     | 6      | 680                 | 0.02              |
| E    | 24 X 12         | 24     | 12     | 920                 | 0.02              |
| F    | 24 X 24         | 24     | 12     | 1500                | 0.02              |
| G    | 36 X 24         | 36     | 12     | 2500                | 0.02              |

FIRESTOPPING AT PENETRATION OF RATED WALLS. CAULKING AT NON-RATED WALLS.  
OPENING  
2W  
H X W  
OPENING  
CLOSED END  
SHEET METAL DUCT WITH 1" ACOUSTICAL LINER  
CEILING  
WALL

1 VAV REHEAT BOX (2-WAY VALVE)  
NO SCALE

2 FLEX DUCT/SPIN-IN FITTING  
NO SCALE  
15880-03

3 TRANSFER AIR DUCT (PLENUM/PLENUM)  
NO SCALE

4  
NO SCALE

5  
NO SCALE

6  
NO SCALE

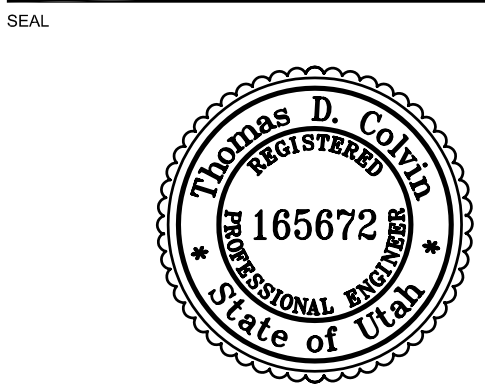
7  
NO SCALE

8  
NO SCALE

9  
NO SCALE

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MECHANICAL  
DETAILS

CD DOCUMENTS  
DATE 4/20/06

SHEET NUMBER

MH501

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| LOUVER SCHEDULE ① |      |              |                       |                   |                              |                          |
|-------------------|------|--------------|-----------------------|-------------------|------------------------------|--------------------------|
| PLAN CODE         | CFM  | VELOCITY FPM | PRESSURE DROP (IN WC) | FREE AREA SQ. FT. | MAX. DIMENSIONS (W x H) (IN) | MANUFACTURER & MODEL NO. |
| L-1               | 1200 | 500          | 0.12                  | 2.9               | 36 X 24                      | AIROLITE K6776           |
| L-2               | 1200 | 500          | 0.12                  | 2.9               | 36 X 24                      | AIROLITE K6776           |

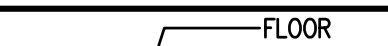
① BIRDSCREEN.

| IN-LINE EXHAUST FAN SCHEDULE |             |            |             |               |         |        |      |              |                 |       |                           |                    |            |        |        |                           |                      |   |
|------------------------------|-------------|------------|-------------|---------------|---------|--------|------|--------------|-----------------|-------|---------------------------|--------------------|------------|--------|--------|---------------------------|----------------------|---|
| PLAN CODE                    | AREA SERVED | TYPE       | CFM @ ELEV. | ESP (⊕ ELEV.) | FAN RPM | MOTOR  |      |              |                 | SONES | DAMPER (GRAVITY OR MOTOR) | METHOD OF CONTROL  | DIMENSIONS |        |        | MAX. OPERATING WT. (LBS.) | MANUFACTURER / MODEL | REMARKS   |
|                              |             |            |             |               |         | B.H.P. | H.P. | EFFICIENCY % | VOLTAGE & PHASE |       |                           |                    | L (IN)     | W (IN) | H (IN) |                           |                      |   |
| EF-1                         | CADAVER LAB | WALL MOUNT | 1500        | .9            | 1285    | 0.513  | 3/4  | PREMIUM      | 208/3           | 15.8  | GRAVITY                   | INTERLOCK W/ FCU-1 | 26         | 22     | 28     | 230                       | COOK DBX-9           | INTERLOCK WITH FAN COIL UNIT SPEED CONTROLLER FOR FAN |
| EF-2                         | RESTROOMS   | INLINE     | 900         | 1.25          | 1742    | 0.364  | 1/2  | PREMIUM      | 115/1           | 16.3  | GRAVITY                   | LIGHT SWITCH       | 23         | 18     | 34     | 200                       | COOK SQN-HP          | -   |

| FAN COIL UNIT SCHEDULE |      |             |        |         |                |              |                |                 |           |      |      |                |             |             |                |                 |            |             |                      |                         |             |
|------------------------|------|-------------|--------|---------|----------------|--------------|----------------|-----------------|-----------|------|------|----------------|-------------|-------------|----------------|-----------------|------------|-------------|----------------------|-------------------------|-------------|
| PLAN CODE              | CFM  | ESP (IN WC) | FAN HP | VOLT/PH | HEATING COIL   |              |                | ELECTRIC HEAT ① |           |      |      | COOLING COIL   |             |             |                | MAX. DIMENSIONS |            |             |                      | MANUFACTURER & MODEL NO | ACCESSORIES |
|                        |      |             |        |         | CAPACITY (MBH) | EAT/LAT (°F) | AIR PD (IN WC) | KW              | EAT/LAT   | MCA  | MOCP | CAPACITY (MBH) | EAT (DB/°F) | LAT (DB/°F) | AIR PD (IN WC) | LENGTH (IN)     | WIDTH (IN) | HEIGHT (IN) | OPERATING WT. (LBS.) |                         |             |
| FC-1                   | 1200 | 40          | 113    | 208/3   | 35             | 50.9/60.9    | -              | 15              | 60.9/98.7 | 70.8 | 80   | 30.8           | 80.8/57.7   | 50.7/41.6   | -              | 50              | 18         | 23          | 350                  | CARRIER FB4-036         | -<br>-      |

① CARRIER FACTORY INSTALLED ELECTRICAL HEAT MODEL# FA4ANF036015

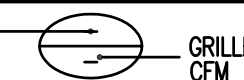
| HEAT PUMP UNIT SCHEDULE |               |              |                 |      |      |                          |                 |             |              |                     |   |
|-------------------------|---------------|--------------|-----------------|------|------|--------------------------|-----------------|-------------|--------------|---------------------|---|
| PLAN CODE               | SYSTEM SERVED | NOMINAL TONS | ELECTRICAL      |      |      | MANUFACTURER & MODEL NO. | MAX. DIMENSIONS |             |              |                     | REMARKS   |
|                         |               |              | VOLTAGE & PHASE | MCA  | MOCP |                          | LENGTH (IN.)    | WIDTH (IN.) | HEIGHT (IN.) | OPERATING WT. (LBS) |   |
| CU-1                    | FC-1          | 3            | 208/3           | 15.7 | 20   | CARRIER 38YCC036         | 30              | 30          | 28           | 200                 | LOW AMBIENT KIT, R-22 REFRIGERANT ANCHOR TO CONCRETE PAD. |

| VAV REHEAT |                 |                             |         |                             |                    |  |              |                    |      |                 |                |          |
|------------|-----------------|-----------------------------|---------|-----------------------------|--------------------|--|--------------|--------------------|------|-----------------|----------------|----------|
|            |                 |                             |         |                             |                    | <div>PLAN CODE </div> |              |                    |      |                 |                |          |
| PLAN CODE  | INLET SIZE (IN) | MAX. COOLING AIR FLOW (CFM) | MAX. NC | Δ P ⑥ MAX. AIR FLOW (IN WC) | MIN. CONTROL (CFM) | HW COIL  |              |                    |      |                 |                |          |
|            |                 |                             |         |                             |                    | EAT (°F)   | MIN LAT (°F) | MAX. HEATING (CFM) | ROWS | MAX. GPM @180°F | MAX. WPD (FT.) | COIL MBH |
| 6R2        | 6               | 500                         | 31      | 0.53                        | 80                 | 55   | 88           | 500                | 2    | 0.6             | 0.1            | 15.0     |
| 8R2        | 8               | 800                         | 29      | 0.48                        | 150                | 55   | 88           | 800                | 2    | 0.9             | 0.3            | 24.0     |

PERFORMANCE AT 4500 FT. ELEVATION.

| ENERGY RECOVERY UNIT ① |                  |             |            |      |        |      |                 |      |      |                             |                                    |                            |                     |                            |             |                 |             |                     |                   |                          |
|------------------------|------------------|-------------|------------|------|--------|------|-----------------|------|------|-----------------------------|------------------------------------|----------------------------|---------------------|----------------------------|-------------|-----------------|-------------|---------------------|-------------------|--------------------------|
| PLAN CODE              | AREA/UNIT SERVED | SUPPLY FAN  |            |      |        |      |                 |      |      | ENERGY RECOVERY UNIT        |                                    |                            |                     |                            |             | MAX. DIMENSIONS |             |                     |                   | MANUFACTURER & MODEL NO. |
|                        |                  | CFM (ELEV.) | ESP (S.L.) | H.P. | B.H.P. | RPM  | VOLTAGE & PHASE | MCA  | MOCP | OUTDOOR EAT (DB) ° F WINTER | OUTDOOR EAT (DB/DB) ° F ° F SUMMER | INDOOR EAT (DB/DB) ° F ° F | LAT (DB) ° F WINTER | LAT (DB/DB) ° F ° F SUMMER | LENGTH (IN) | WIDTH (IN)      | HEIGHT (IN) | OPERATING WT.(LBS.) |                   |                          |
| ERU-1                  | CADAVER LAB      | 1200        | 1"         | 2    | 1.2    | 1470 | 208/3           | 15.8 | 20   | 0                           | 96/62                              | 74/60                      | 70                  | 75/65                      | 62          | 50              | 41          | 400                 | RENEWAIRE HE2XINH |                          |

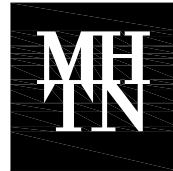
① INTERLOCK WITH FAN COIL UNIT.

| AIR DEVICE SCHEDULE |                           |           |           |               |          |                      |                |                       |                        |                        | PLAN CODE                |  | GRILLE CFM |
|---------------------|---------------------------|-----------|-----------|---------------|----------|----------------------|----------------|-----------------------|------------------------|------------------------|--------------------------|---|------------|
| PLAN CODE           | TYPE & DUTY               | FACE SIZE | NECK SIZE | CEILING TYPE  | MAX. CFM | MAX. T.P. (IN. W.C.) | N.C. LEVEL MAX | MIN. THROW (FT) (T50) | 4-WAY MIN. THROW (T50) | 2-WAY MIN. THROW (T50) | MANUFACTURER & MODEL NO. | REMARKS   |            |
| 13                  | PERFORATED EXHAUST GRILLE | 14" X 8"  | 12" X 6"  | MATCH CEILING | 123      | 0.03                 | —              | —                     | —                      | —                      | TITUS 8F                 | —   |            |
| 37                  | ADJUSTABLE LOUVERED       | 14" X 14" | 12" X 12" | MATCH CEILING | 300      | 0.042                | —              | ADJUSTABLE            | 16                     | —                      | TITUS TDCA               | —   |            |
| 38                  | ADJUSTABLE LOUVERED       | 11" X 11" | 9" X 9"   | MATCH CEILING | 170      | 0.042                | —              | ADJUSTABLE            | 12                     | —                      | TITUS TDCA               | —   |            |
| 41                  | SUPPLY DIFFUSER           | 24" X 24" | 14"ø      | MATCH CEILING | 641      | 0.08                 | 22             | 21                    | —                      | —                      | TITUS TDCA               | —   |            |
| 42                  | LOW SIDEWALL RETURN       | 48" X 24" | 46" X 22" | —             | 1336     | 0.008                | 27             | —                     | —                      | —                      | TITUS 350FL              | BLADES TO RUN PARALLEL TO FLOOR, ALUMINUM   |            |
| 43                  | SIDEWALL SUPPLY           | 26" X 10" | 24" X 8"  | —             | 685      | 0.03                 | 13             | 26                    | —                      | —                      | TITUS 271FL              | BLADES TO RUN PARALLEL TO FLOOR, ALUMINUM   |            |
| 49                  | SIDEWALL GRILLE           | 32" X 10" | 30" X 8"  | SURFACE       | 555      | 0.05                 | 12             | —                     | —                      | —                      | TITUS 271FL              | BLADES TO RUN PARALLEL TO FLOOR, ALUMINUM   |            |

(\*)1 RECOMMENDED MIN. DISTANCE BETWEEN DIFFUSERS IN 9' CEILING.

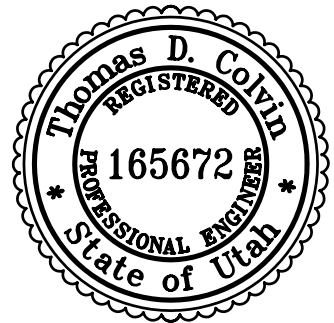
(\*)2 VERIFY FRAME TYPE OF ALL AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN BEFORE ORDERING.

| CONVECTOR |              |                    |                     |      |          |             |                |          |        |       |       |        |                                 |                          |                                   |
|-----------|--------------|--------------------|---------------------|------|----------|-------------|----------------|----------|--------|-------|-------|--------|---------------------------------|--------------------------|-----------------------------------|
| PLAN CODE | CAPACITY MBH | FLOW RATE (GPM/LF) | AVERAGE WATER TEMP. | TUBE |          | FINS        |                |          | COVER  |       |       |        | MOUNTING HEIGHT TO TOP OF COVER | MANUFACTURER & MODEL NO. | REMARKS                           |
|           |              |                    |                     | SIZE | MATERIAL | SIZE        | SPACING F.P.I. | MATERIAL | HEIGHT | DEPTH | STYLE | LENGTH |                                 |                          |                                   |
| C-1       | 3.9          | .5                 | 170°F               | 1/2" | COPPER   | 2-3/4" x 3" | 4              | ALUMINUM | 26"    | 6"    | PR    | 32"    | MATCH EXISTING                  | AIRTHERM 32-6-26         | WITH DANFOSS SELF-CONTAINED VALVE |
| C-2       | 3.9          | .5                 | 170°F               | 1/2" | COPPER   | 2-3/4" x 3" | 4              | ALUMINUM | 26"    | 6"    | PR    | 32"    | MATCH EXISTING                  | AIRTHERM 32-6-26         | WITH DANFOSS SELF-CONTAINED VALVE |
| C-3       | 3.9          | .5                 | 170°F               | 1/2" | COPPER   | 2-3/4" x 3" | 4              | ALUMINUM | 26"    | 6"    | PR    | 32"    | MATCH EXISTING                  | AIRTHERM 32-6-26         | WITH DANFOSS SELF-CONTAINED VALVE |
| C-4       | 3.9          | .5                 | 170°F               | 1/2" | COPPER   | 2-3/4" x 3" | 4              | ALUMINUM | 26"    | 6"    | PR    | 32"    | MATCH EXISTING                  | AIRTHERM 32-6-26         | WITH DANFOSS SELF-CONTAINED VALVE |



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WEBER STATE UNIVERSITY  
OGDEN CAMPUS OGDEN, UTAH  
UTAH STATE DIVISION OF  
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DFCM PROJECT NO. 04040810



MHTN PROJECT NO.  
DFCM PROJECT NO. 2005605  
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## MECHANICAL SCHEDULES

CD DOCUMENTS  
DATE 4/20/06

SHEET NUMBER

MH601



Colvin

ENGINEERING ASSOCIATES, INC.

244 West 300 North Suite 200  
Salt Lake City, Utah 84103  
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KEYED NOTES

① RUN 3/4" COPPER TYPE "M" CONDENSATE DRAIN WITH P-TRAP TO 6" ABOVE GRADE OUTSIDE.

GENERAL NOTES

Ⓐ ALL INSTALLATION REQUIRING CONCRETE CUTTING WILL BE RESPONSIBILITY OF THIS CONTRACTOR.

① GROUND FLOOR PLUMBING REMODEL PLAN

SCALE: 3/32" = 1'-0"

6' 0' 4' 8' 12' 16' 24'

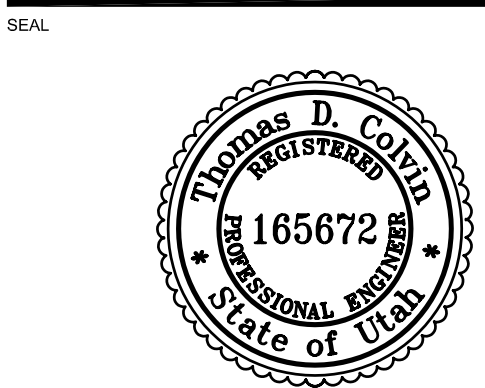
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GROUND FLOOR  
PLUMBING  
REMODEL PLAN

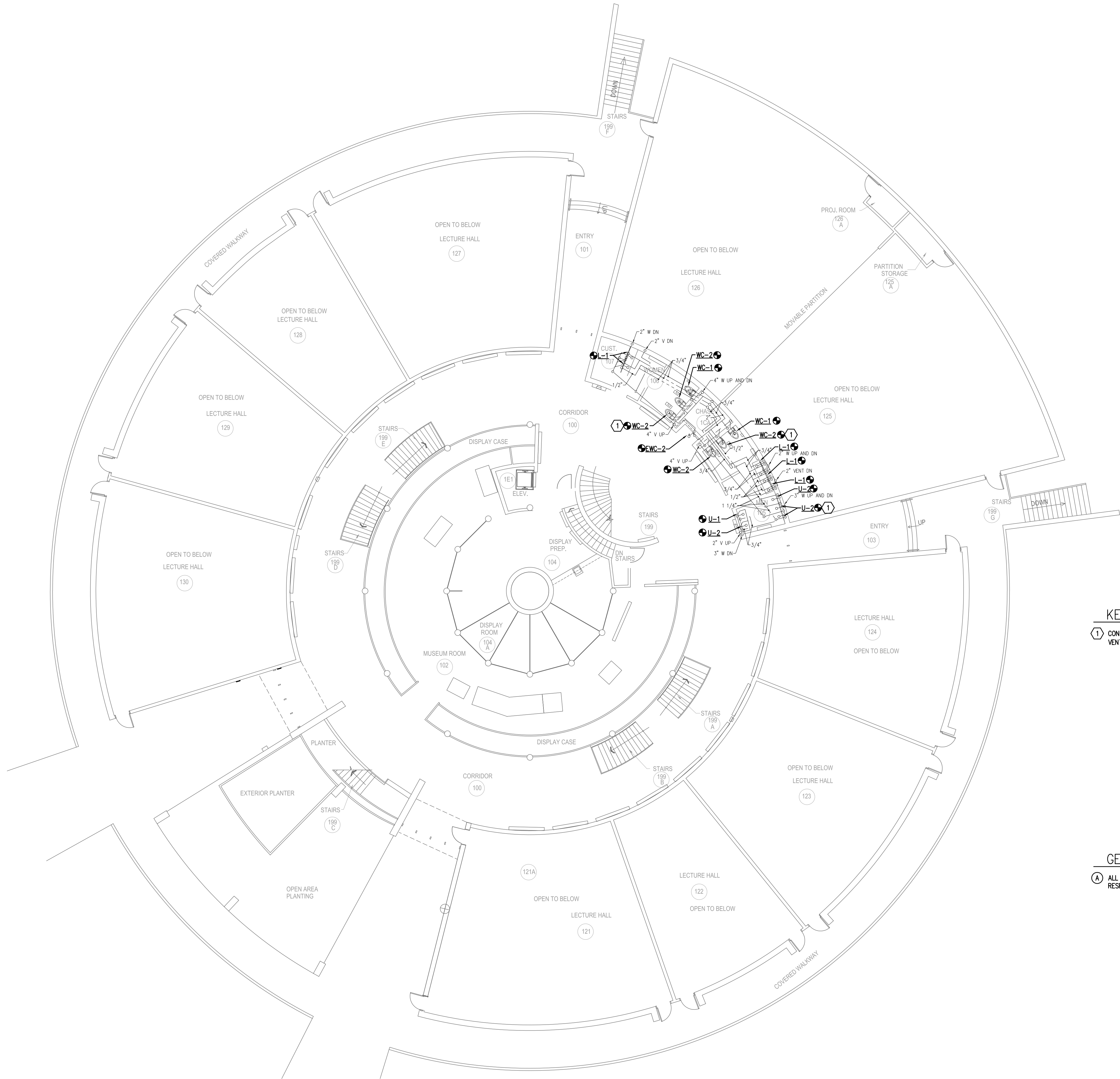
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KEYED NOTES

- 1 CONNECT NEW FIXTURES TO EXISTING HOT, COLD, WASTE AND VENT PIPING ( TYPICAL ALL FIXTURES).

GENERAL NOTES

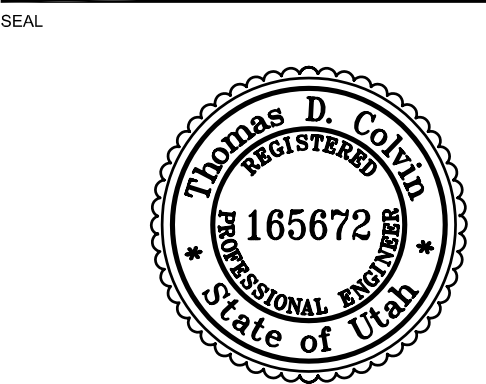
- A ALL INSTALLATION REQUIRING CONCRETE CUTTING WILL BE RESPONSIBILITY OF THIS CONTRACTOR.

1 FIRST FLOOR PLUMBING REMODEL PLAN  
SCALE: 3/32" = 1'-0"  
6" 0 4' 8' 12' 16' 24'

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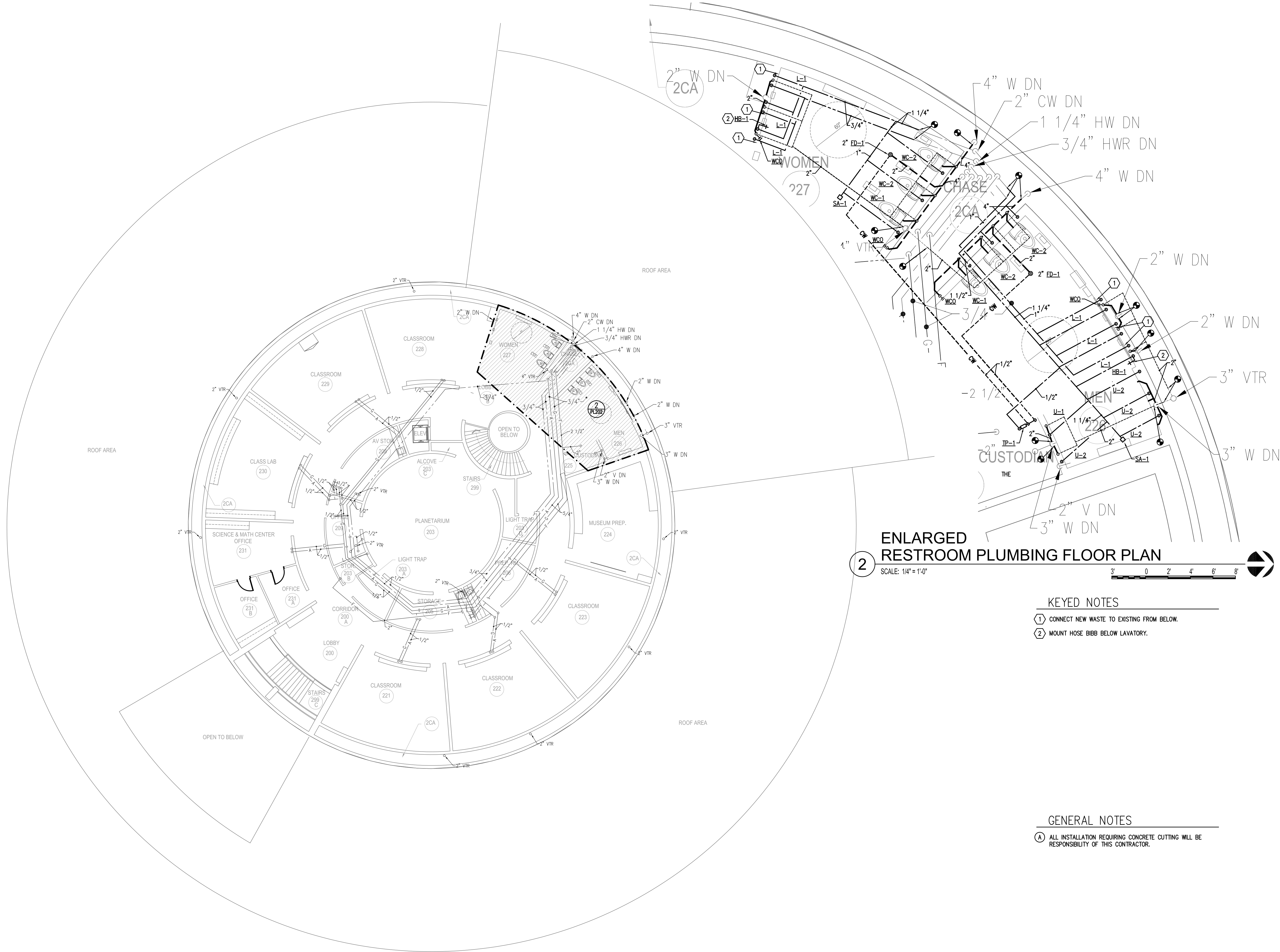
FIRST FLOOR  
PLUMBING  
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SECOND FLOOR  
PLUMBING  
REMODEL PLAN

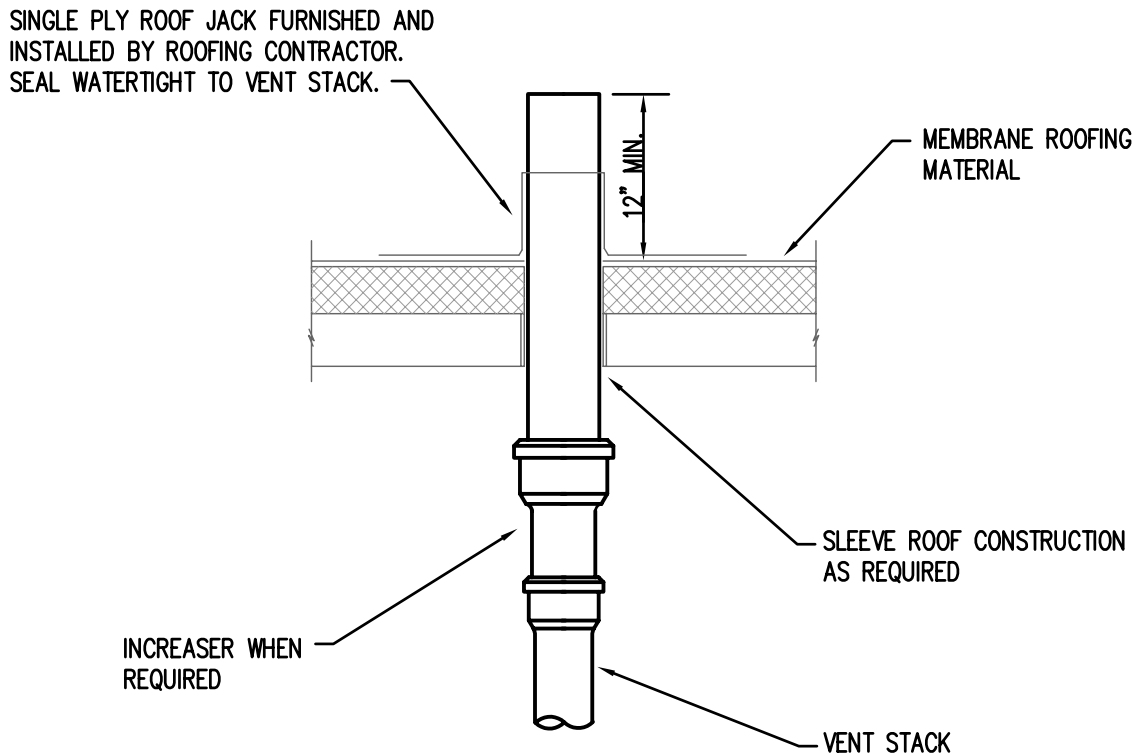
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SINGLE PLY ROOF JACK FURNISHED AND INSTALLED BY ROOFING CONTRACTOR. SEAL WATERTIGHT TO VENT STACK.

MEMBRANE ROOFING MATERIAL

12" MIN.

SLEEVE ROOF CONSTRUCTION AS REQUIRED

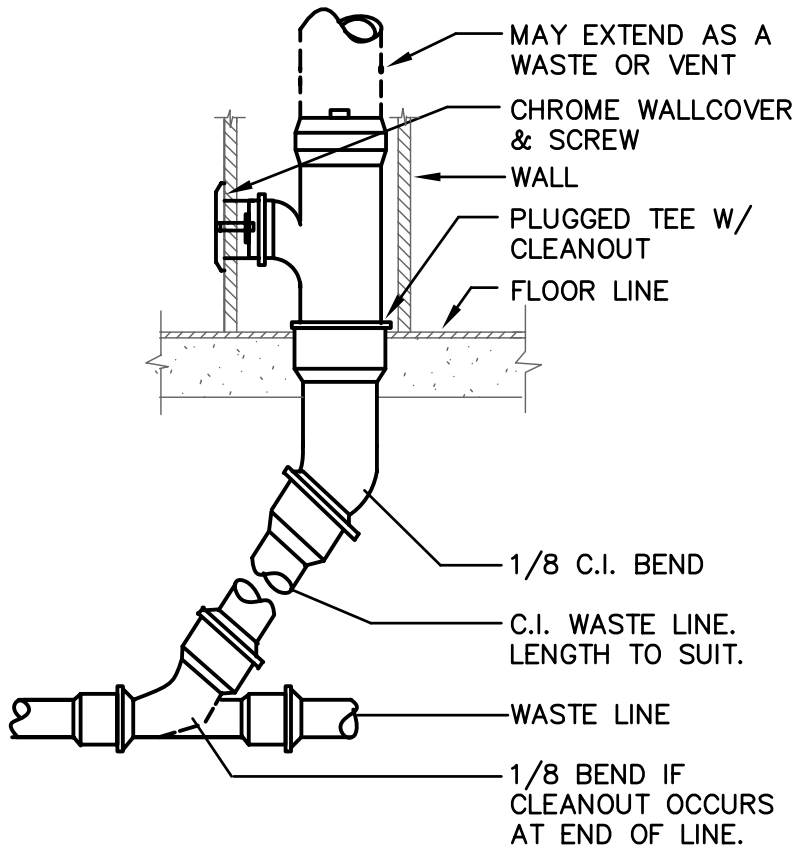
INCREASER WHEN REQUIRED

VENT STACK

1 VENT THROUGH ROOF DETAIL

NO SCALE

15410



MAY EXTEND AS A WASTE OR VENT

CHROME WALLCOVER & SCREW

WALL

PLUGGED TEE W/ CLEANOUT

FLOOR LINE

1/8 C.I. BEND

C.I. WASTE LINE, LENGTH TO SUIT.

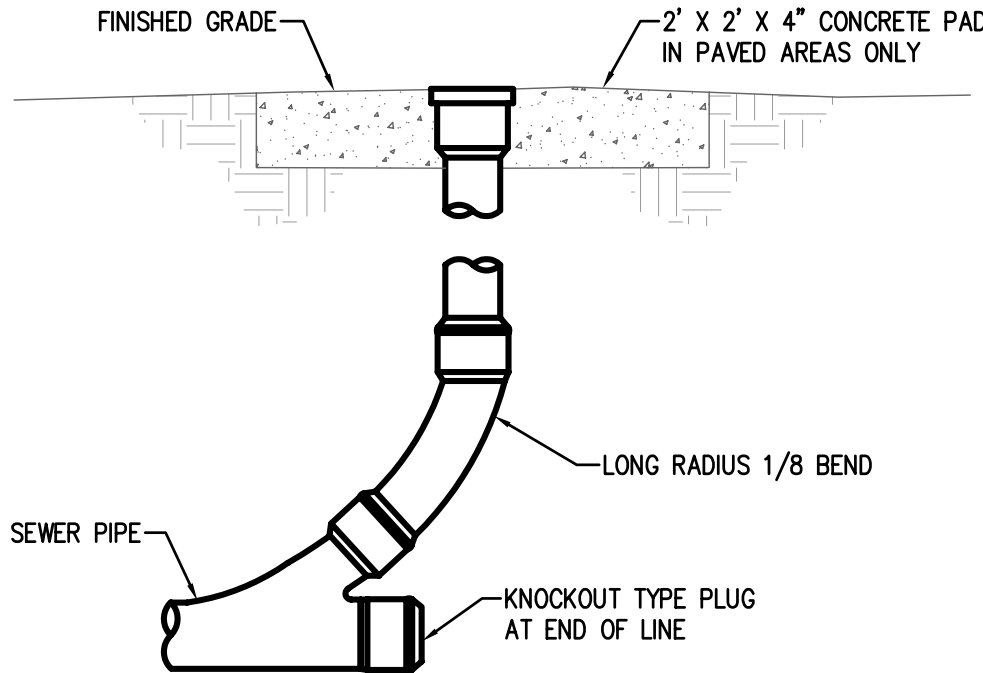
WASTE LINE

1/8 BEND IF CLEANOUT OCCURS AT END OF LINE.

2 WALL CLEANOUT DETAIL

NO SCALE

15430



FINISHED GRADE

2' X 2' X 4" CONCRETE PAD IN PAVED AREAS ONLY

SEWER PIPE

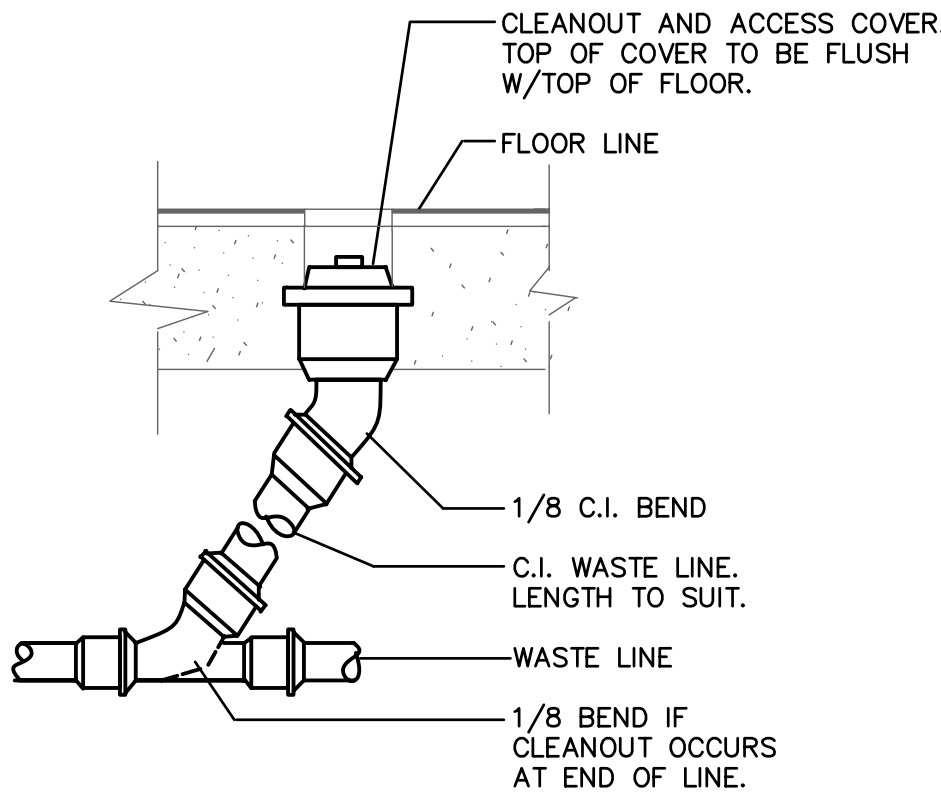
LONG RADIUS 1/8 BEND

KNOCKOUT TYPE PLUG AT END OF LINE

3 SURFACE CLEANOUT DETAIL

NO SCALE

15430



CLEANOUT AND ACCESS COVER. TOP OF COVER TO BE FLUSH W/TOP OF FLOOR.

FLOOR LINE

1/8 C.I. BEND

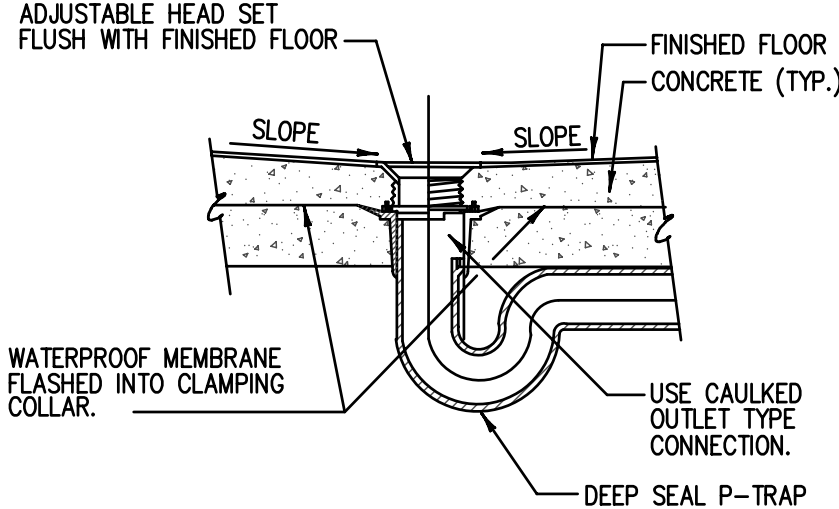
C.I. WASTE LINE, LENGTH TO SUIT.

WASTE LINE

1/8 BEND IF CLEANOUT OCCURS AT END OF LINE.

4 FLOOR CLEANOUT DETAIL

NO SCALE



ADJUSTABLE HEAD SET FLUSH WITH FINISHED FLOOR

SLOPE

FINISHED FLOOR CONCRETE (TYP.)

WATERPROOF MEMBRANE FLASHED INTO CLAMPING COLLAR.

USE CAULKED OUTLET TYPE CONNECTION.

DEEP SEAL P-TRAP

5 TYPICAL FLOOR DRAIN DETAIL

NO SCALE

6

NO SCALE

7

NO SCALE

8

NO SCALE

9

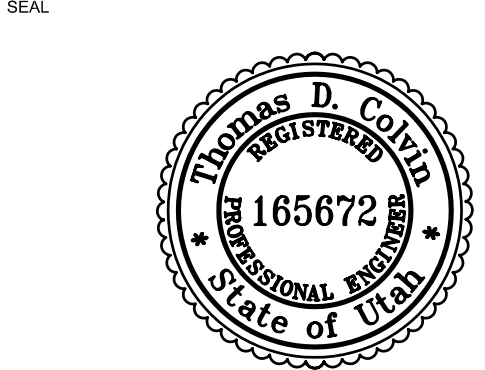
NO SCALE

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PLUMBING  
DETAILS

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DATE 4/20/06

SHEET NUMBER

PL501

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| PLUMBING FIXTURE SCHEDULE |   |               |      |          |        |        |       |  |
|---------------------------|---|---------------|------|----------|--------|--------|-------|--|
| PLAN CODE                 | DESCRIPTION   | ROUGH-IN SIZE |      |          |        |        |       | MANUFACTURE  |
|                           |   | C.W.          | H.W. | TEMPERED | WASTE  | VENT   | STORM |  |
| WC-1                      | WATER CLOSET, ADA COMPLIANT WALL MOUNT, MANUAL FLUSH VALVE, SIPHON JET, VITREOUS CHINA 1.6 GPF  | 1"            | -    | -        | 3"     | 2"     | -     | AMERICAN STANDARD "AFWALL" 2257.103<br>SEAT: OLSONITE #10CC/SS<br>FLUSH VALVE: ZURN Z-6000AV-WS1<br>COLOR: WHITE<br>FLOOR TO RIM: 17"  |
| WC-2                      | WATER CLOSET, STANDARD WALL MOUNT, MANUAL FLUSH VALVE, SIPHON JET, VITREOUS CHINA 1.6 GPF   | 1"            | -    | -        | 3"     | 2"     | -     | AMERICAN STANDARD "AFWALL" 2257.103<br>SEAT: OLSONITE #10CC/SS<br>FLUSH VALVE: ZURN Z-6000AV-WS1<br>COLOR: WHITE<br>FLOOR TO RIM: 15"  |
| U-1                       | URINAL, ADA COMPLIANT, VITREOUS CHINA, SIPHON JET, BATTERY POWERED PHOTO EYE FLUSH VALVE, 1.0 GPF   | 3/4"          | -    | -        | 2"     | 1 1/2" | -     | AMERICAN STANDARD "WASHBROOK" 6501.010<br>FLUSH VALVE: ZURN ZEMS-6003AV-WS1 (POWER CONVERTER ZURN# P6000-HP6 BY M.C., POWER UP TO 8 VALVES, SEE PLANS FOR QUANTITY REQUIRED.)<br>COLOR: WHITE<br>FLOOR TO RIM: 17"   |
| U-2                       | URINAL, STANDARD, VITREOUS CHINA, SIPHON JET, BATTERY POWERED PHOTO EYE FLUSH VALVE, 1.0 GPF  | 3/4"          | -    | -        | 2"     | 1 1/2" | -     | AMERICAN STANDARD "WASHBROOK" 6501.010<br>FLUSH VALVE: ZURN ZEMS-6003AV-WS1 (POWER CONVERTER ZURN# P6000-HP6 BY M.C., POWER UP TO 8 VALVES, SEE PLANS FOR QUANTITY REQUIRED.)<br>COLOR: WHITE<br>FLOOR TO RIM: 24"   |
| L-1                       | OVAL, VITREOUS CHINA, COUNTERTOP MOUNTED, (ADA) LAVATORY, 4" CENTERSET, CHROME WRISTBLADE HANDLE GOOSENECK FAUCET WITH GRID DRAIN, 0.5 GPM FLOW | 1/2"          | -    | 1/2"     | 1 1/2" | 1 1/2" | -     | AMERICAN STANDARD "AQUALYN" 0475.020<br>FAUCET: AMERICAN STANDARD "MONTERREY" 7502.170 P-TRAP ADA INSULATION KIT.  |
| EW-1                      | "ADA" SINGLE LEVEL, SURFACE MOUNT ELECTRIC WATER COOLER   | 3/8"          | -    | -        | 1 1/4" | 1 1/4" | -     | OASIS PBAMSL, BRUSHED STAINLESS STEEL CABINET.   |
| FD-1                      | FLOOR DRAIN<br>(INDOOR FINISHED AREA USE)   | -             | -    | -        | 2"     | 1 1/2" | -     | J.R. SMITH MANUFACTURING COMPANY FIG. 2005Y-B-P050-NB DUCO CAST IRON FLOOR DRAIN. DRAIN TO BE PROVIDED WITH 2" OUTLET, SQUARE NICKEL BRONZE STRAINER HEAD, TRAP PRIMER CONNECTION AND VANDAL PROOF SCREWS. STRAINER HEAD MUST BE HEEL PROOF, DEEP SEAL TRAP. OR EQUAL. |
| WC0                       | WALL CLEANOUT   | -             | -    | -        | -      | 4"     | -     | J.R. SMITH MANUFACTURING COMPANY SERIES 4530, CAST IRON CLEANOUT TEE, ABS PLUG, STAINLESS STEEL COVER WITH VANDAL PROOF SECURITY SCREWS. OR EQUAL.   |
| FC0                       | FLOOR CLEANOUT  | -             | -    | -        | -      | 4"     | -     | J.R. SMITH MANUFACTURING COMPANY SERIES 4020, CAST IRON ADJUSTABLE BODY, ABS PLUG, VANDAL PROOF SECURITY SCREWS. OR EQUAL.   |
| TP-1                      | TRAP PRIMER   | 1/2"          | -    | -        | -      | -      | -     | PRECISION PLUMBING PRODUCTS INC. PR-500. PR-500 WITH DISTRIBUTION SYSTEM DU-2.   |
| HB-1                      | HOSE BIBB - WALL MOUNTED<br>(INDOOR FINISHED AREA USE)  | 3/4"          | -    | -        | -      | -      | -     | CHICAGO FAUCETS MODEL 952.OP, BRASS CONSTRUCTION HOSE BIB, CHROME PLATED FINISH, VACUUM BREAKER, 3/4" HOSE THREAD, WALL FLANGE, LOOSE KEY OPERATOR.  |
| SA-1                      | SHOCK ARRESTOR  | 1/2"          | -    | -        | -      | -      | -     | PRECISION PLUMBING PRODUCTS SC-500   |

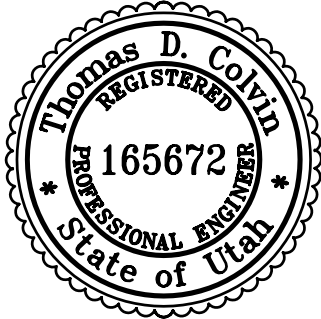
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LIND LECTURE HALL REMODEL  
WEBER STATE UNIVERSITY  
OGDEN CAMPUS OGDEN, UTAH

UTAH STATE DIVISION OF  
FACILITIES CONSTRUCTION & MANAGEMENT  
DFCM PROJECT NO. 04040810

SEAL



MHTN PROJECT NO. \_\_\_\_\_  
DFCM PROJECT NO. 2005605  
DRAWN BY: GR CHECKED BY: BRC

| ISSUED: |         |                |
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| NO.     | DATE    | DESCRIPTION    |
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PLUMBING  
SCHEDULES

CD DOCUMENTS  
DATE 4/20/06











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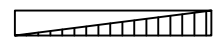





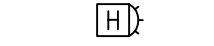
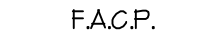


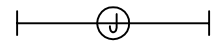

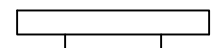




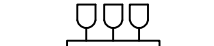

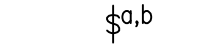
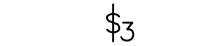








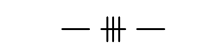
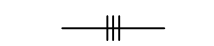
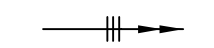




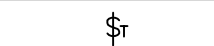
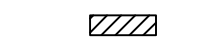

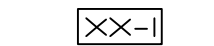
C

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| LIGHTING FIXTURE SCHEDULE   |   |                 |  |   |
|---|---|-----------------|--|---|
| SYMBOL  | DESCRIPTION   | LAMPS           | APPROVED MANUFACTURERS                             | CATALOG NUMBER  |
|    | RECESSED FLUORESCENT UPLIGHT FIXTURE MOUNTED FLUSH INTO PLASTER WALL. FIXTURE INSTALLED BY DRYWALL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. | (1) 42W CFTT    | ELP<br>BELFER                                      | 42-TT-HITW-6 X 13<br>B20-42-I-EGWR  |
|    | WALL MOUNTED FLUORESCENT UP & DOWN LIGHT FIXTURE WITH PERFORATED FASCIA PLATE. LENGTH AS SHOWN ON DRAWINGS.   | (2) F032XP T-8  | PRUDENTIAL<br>FORUM<br>PRISMA                      | WAL-14-P-2T8-*T114-SG-120-W114-10THD*<br>LADA-C-0505-EX-L-WT-2<br>014408  |
|    | SURFACE MOUNTED 4' FLUORESCENT STRIP LIGHT FIXTURE WITH WIRE GUARD.   | (2) F032XP T-8  | LITHONIA<br>COLUMBIA<br>METALUX                    | C232-11VOLT-GE810PS-H6CJN<br>CS4-232-EB8FRLHUNV-CSH64<br>S5232-UNV-ER81-W6/55-4FT-U-AYC-CHAIN<br>KH45232-120-50-ANG4W-CSP |
|    | 2' X 4' RECESSED GRID MOUNTED FLUORESCENT LIGHT FIXTURE WITH FLUSH STEEL DOOR, 125" ACRYLIC PRISMATIC LENS, DUAL BALLASTS.                            | (2) F032XP T-8  | LITHONIA<br>COLUMBIA<br>METALUX<br>LIGHTOLIER      | 29P8-G-232-A12125-120-GE810PS<br>ST824-232G-FSA12125-EB8FRLHUNV<br>2GC8232A125-UNV-ER82<br>2PS2GFSV1232/PSX DUAL          |
|    | 1' X 4' SURFACE MOUNTED LIGHT FIXTURE WITH WRAPAROUND PRISMATIC ACRYLIC LENS.   | (2) F032XP T-8  | LITHONIA<br>COLUMBIA<br>METALUX<br>LIGHTOLIER      | AW-2-32-120-GE810PS<br>AHN4-232-EB8FRLHUNV<br>SA232A-UNV-ER81<br>JS4A232-120-50   |
|    | 9" APERTURE RECESSED CAN LIGHT FIXTURE WITH CLEAR ALZAK REFLECTOR AND WHITE TRIM RING.  | (1) 32 W CFTT   | LITHONIA<br>PRESCOLITE<br>PORT-FLUOR<br>LIGHTOLIER | LP8F-32TRT-120-GE810-802A<br>CF1832EB-STP802-B24<br>PD1-V142E-TVG<br>8022CGLW-ST142B                                      |
|    | 4 FEET LONG, SURFACE MOUNTED FLUORESCENT FIXTURE. BASIC PERF HOMO.  | (1) F054 T-5 HO | METALUX<br>ZIMTOBEL<br>LIGHTOLIER                  | BSX-P1-B4T5-120-EB81<br>ZX-RG-WOR-N154-4-W-ZX-ZAC-10<br>SF2GJG28-120AL  |
|    | SAME AS T-4 EXCEPT SINGLE BALLAST   | (2) F032XP T-8  | LITHONIA<br>COLUMBIA<br>METALUX<br>LIGHTOLIER      | 29P8-G-232-A12125-120-GE810PS<br>ST824-232G-FSA12125-EB8FRLHUNV<br>2GC8232A125-UNV-ER81<br>SP2GFSV1232/PSX                |
|    | LED EXIT SIGN WITH DIE CAST WHITE HOUSING, GREEN LETTERS AND BATTERY PACK UNIT.   | INCLUDED        | LITHONIA<br>DUAL-LITE<br>ISO LITE<br>LIGHTOLIER    | LESWIG 120/211 ELN<br>CVD1GEH<br>LPDGC-B1-SG-WH-WH-G<br>LD9NIGH   |
|  | LED EXIT SIGN WITH DIE CAST WHITE HOUSING, GREEN LETTERS AND BATTERY PACK UNIT. DOUBLE FACED.   | INCLUDED        | LITHONIA<br>DUAL-LITE<br>ISO LITE<br>LIGHTOLIER    | LESWIG 120/211 ELN<br>LPDGC-B1-DG-WH-WH-G<br>LD9NIGH  |

- NOTES:  
1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLASTS, 10% TOTAL HARMONIC DISTORTION. UNIVERSAL, ADVANCE AND SYLVANIA ARE APPROVED MANUFACTURERS. BALLASTS TO HAVE 5 YEAR WARRANTY.  
2. ALL FLUORESCENT LAMPS SHALL HAVE 4100° COLOR TEMPERATURE. PROVIDE PREMIUM T-8 LAMPS AND BALLASTS.  
3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.  
4. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.

| COMMUNICATION SYSTEMS SYMBOL LIST   |  |
|---|--|
| SYMBOL  | DESCRIPTION  |
|    | TELEPHONE TERMINAL BOARD   |
|    | FLUSH TELEPHONE OUTLET   |
|    | INDICATES DEVICE IS ABOVE COUNTER TOP  |
|    | REFERENCE NOTE CALLOUT   |
| FIRE ALARM SYSTEM SYMBOL LIST   |  |
| SYMBOL  | DESCRIPTION  |
|    | FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR  |
|    | FIRE ALARM MANUAL PULL STATION   |
|    | FIRE ALARM HORN WITH STROBE HIGH DECIBEL   |
|    | FIRE ALARM CONTROL PANEL   |
| LIGHTING SYSTEMS SYMBOL LIST  |  |
|    | RECESSED FLUORESCENT FIXTURE   |
|    | SURFACE MOUNTED FLUORESCENT FIXTURE  |
|    | FLUORESCENT STRIP LIGHT FIXTURE  |
|    | RECESSED FIXTURE   |
|    | WALL MOUNTED FIXTURE   |
|    | SURFACE MOUNTED FIXTURE  |
|    | WALL SCONCE FIXTURE  |
|    | FIXTURES ON EMERGENCY POWER  |
|    | EXIT LIGHT. ARROWS SHOW EXIT DIRECTION   |
|    | TRACK LIGHTING FIXTURE   |
|    | SINGLE POLE TOGGLE SWITCH - 20 AMP   |
|    | SINGLE POLE TOGGLE SWITCH - 20 AMP, LETTERS INDICATE SWITCH ASSIGNMENT           |
|    | THREE WAY TOGGLE SWITCH - 20 AMP   |
|    | CEILING MOUNTED OCCUPANCY SENSOR - U = ULTRASONIC, I = INFRARED, DT = DUAL TECH. |
|    | WALL MOUNTED OCCUPANCY SENSOR - U = ULTRASONIC, I = INFRARED, DT = DUAL TECH.    |
|    | SLIDE CONTROL DIMMER   |
|    | LIGHTING FIXTURE CALLOUT, NUMBER INDICATES A SUGGESTED QUANTITY- TO BE VERIFIED  |
| POWER SYSTEMS SYMBOL LIST   |  |
| SYMBOL  | DESCRIPTION  |
|    | DUPLEX CONVENIENCE OUTLET - 20 AMP   |
|    | DUPLEX CONVENIENCE OUTLET - 20 AMP GROUND FAULT INTERRUPTER                      |
|   | 4-PLEX CONVENIENCE OUTLET - 20 AMP   |
|  | JUNCTION BOX - SIZE AND FUNCTION AS REQUIRED                                     |
|  | CONDUITS CONCEALED IN FLOOR OR BELOW GRADE                                       |
|  | CONDUITS CONCEALED IN CEILING AND WALLS  |
|  | ARROWS INDICATE HOME RUNS - LINES INDICATE NUMBER CONDUCTORS                     |
|  | NON FUSED DISCONNECT SWITCH - SIZE AS REQUIRED                                   |
|  | FUSED DISCONNECT SWITCH - SIZE AS REQUIRED                                       |
|  | COMBINATION STARTER DISCONNECT   |
|  | MOTOR LOCATION   |
|  | MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION                               |
|  | ELECTRICAL PANEL LOCATION  |
|  | INDICATES CEILING MOUNTED DEVICE   |
|  | MECHANICAL EQUIPMENT CALLOUT   |

| MECHANICAL EQUIPMENT SCHEDULE   |                              |                     |                     |               |                |                      |    |    |    |
|---|------------------------------|---------------------|---------------------|---------------|----------------|----------------------|----|----|----|
|   | NAME OF MECHANICAL EQUIPMENT | IN-LINE EXHAUST FAN | IN-LINE EXHAUST FAN | FAN COIL UNIT | HEAT PUMP UNIT | ENERGY RECOVERY UNIT |    |    |    |
|   | EQUIPMENT NO.                | EF-1                | EF-2                | FC-1          | CU-1           | ERU-1                | -- | -- | -- |
| MOTOR DATA  | RATING/WATTS                 | 3/4 HP              | 1/2 HP              | 15 KW         | --             | 2 HP                 | -- | -- | -- |
|   | VOLTAGE                      | 208                 | 120                 | 208           | 208            | 208                  | -- | -- | -- |
|   | PHASE                        | 3                   | 1                   | 3             | 3              | 3                    | -- | -- | -- |
|   | AMPS                         | 3.22                | 4.8                 | 10.8          | 15.1           | 15.8                 | -- | -- | -- |
|   | WIRE SIZE                    | 3 #12               | 2 #12               | 3 #4          | 3 #12          | 3 #12                | -- | -- | -- |
|   | GROUND WIRE                  | 1 #12               | 1 #12               | 1 #8          | 1 #12          | 1 #12                | -- | -- | -- |
|   | CONDUIT SIZE                 | 3/4"                | 3/4"                | 1"            | 3/4"           | 3/4"                 | -- | -- | -- |
|   | FUSE DISC. SW.               | 30                  | --                  | 100           | 30             | 30                   | -- | -- | -- |
|   | TYPE RK1 FUSES               | 4.5                 | --                  | 80            | 20             | 20                   | -- | -- | -- |
|   | NON-FUSE SW.                 | --                  | --                  | --            | --             | --                   | -- | -- | -- |
|   | CAPACITOR (KVAR)             | --                  | --                  | --            | --             | --                   | -- | -- | -- |
|   | NOTES                        | 3                   | 2                   | 3             | 1              | 3                    | -- | -- | -- |
| NOTES:<br>1. STARTER IS FURNISHED WITH THE UNIT. PROVIDE SITE DISCONNECT.<br>2. PROVIDE THERMAL OVERLOAD SWITCH.<br>3. PROVIDE COMBINATION STARTER & DISCONNECT (HOM) W/ (2) NO. & N.C. CONTACTS.<br>4. UNIT FURNISHED WITH VFD. PROVIDE SITE FUSED DISCONNECT WITH ELECTRICAL INTERLOCK (FACTORY) INSTALLED. |                              |                     |                     |               |                |                      |    |    |    |

- GENERAL NOTES:
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
  - MINIMUM SIZE OF CONDUIT TO BE 3/4". ALUMINUM CONDUITS SHALL NOT BE USED.
  - USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
  - SUPPORT THE LAY-IN TYPE FIXTURES FROM THE CEILING DECK INDEPENDENT OF THE CEILING GRID, AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING DETAIL.
  - ALL NEW WORK MUST MEET THE CURRENT NATIONAL ELECTRICAL CODE (2005).
  - NOT MORE THAN THREE (3) CIRCUITS, SHALL BE INSTALLED IN A 3/4" CONDUIT.
  - THE SIZE OF THE NEUTRAL CONDUCTORS SHALL BE NO. 10 AWG FOR ALL HOME RUNS WITH COMMON NEUTRAL (LIGHTING AND POWER CIRCUITS).
  - THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THIN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
  - ALL J-BOXES SHALL BE 4"x4" WITH A MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS.
  - ALL NEW EXPOSED CONDUIT MUST RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILINGS.
  - USE NO. 10 THIN CONDUCTORS FOR HOMERUNS OVER 100 FEET, NO. 8 THIN OVER 200 FEET, NO. 6 THIN OVER 300 FEET AND NO. 4 THIN OVER 400 FEET LENGTH.
  - PAINT ALL THE J-BOXES FOR FIRE ALARM SYSTEM WITH RED PAINT. MARK ALL THE CONDUIT FOR FIRE ALARM SYSTEM EVERY 8' WITH RED STRIPE. DO NOT PAINT SURFACE WIREHOLD.
  - COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.
  - LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH ONE PIECE COVERPLATE.
  - AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
  - SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
  - ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED AND NEW.
  - ALL ELECTRICAL WIRING MUST BE IN CONDUIT (ROMEX AND MC CABLES ARE NOT PERMITTED).
  - PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED.
  - ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP, 120 VOLT SPEC GRADE DECOR TYPE. HUBBELL AND PASS & SEYMOUR AND LEVITON ARE APPROVED MANUFACTURERS.
  - THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE MECHANICAL CONTRACTOR SO THAT NO PIPING, DUCTS, OR OTHER EQUIPMENT SHALL BE INSTALLED IN ENTRY OR PASS THROUGH ELECTRICAL ROOM OR SPACES ABOVE OR BELOW ELECTRICAL PANELS.
  - ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS.
  - THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC.) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ARCHITECT/ENGINEER A MINIMUM OF FIVE WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM.
  - PROVIDE TYPED LABEL FOR ALL NEW DUPLEX OUTLETS AND NEW LIGHT SWITCHES TO INDICATE WHICH CIRCUIT AND PANELBOARD THEY ARE TIED TO.
  - INSTALL EXIT SIGNS ON THE WALL IF POSSIBLE.
  - PROVIDE UPDATED TYPED WRITTEN PANEL SCHEDULE FOR ALL EXISTING PANELBOARDS WHERE CIRCUITS HAVE BEEN ADDED OR REMOVED.
  - ALL NEW CONDUIT MUST BE CONCEALED IN WALLS. REVIEWING ROUTING OF ANY NEW CONDUIT WHICH ABSOLUTELY CAN NOT BE CONCEALED WITH ENGINEER OR ARCHITECT PRIOR TO ROUGH IN. ALL EXPOSED RACEWAY MUST BE WIREHOLD WITH WIREHOLD SURFACE MOUNTED SHALLOW BOX. ALL EXPOSED RACEWAYS MUST BE PAINTED PRIOR TO INSTALLATION TO MATCH AS CLOSE AS POSSIBLE THE COLOR OF EXISTING SURFACE. SUCH AS IN POOL AREA AND GYMNASIUM.
  - LOCATION OF ALL CORE DRILLING FOR CONDUIT BETWEEN FLOORS AND THROUGH EXISTING CONCRETE WALLS MUST BE COORDINATED WITH GENERAL CONTRACTOR AHEAD OF TIME.
  - PROVIDE ENGRAVED NAME TAG FOR ALL NEW DISCONNECT SWITCHES TO INDICATE NAME OF DEVICE, CIRCUIT AND PANEL FEEDING DEVICE.



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




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MHTN PROJECT NO. 2005005 ECE PROJECT NO. 3021  
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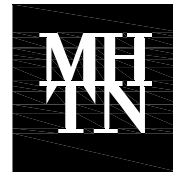
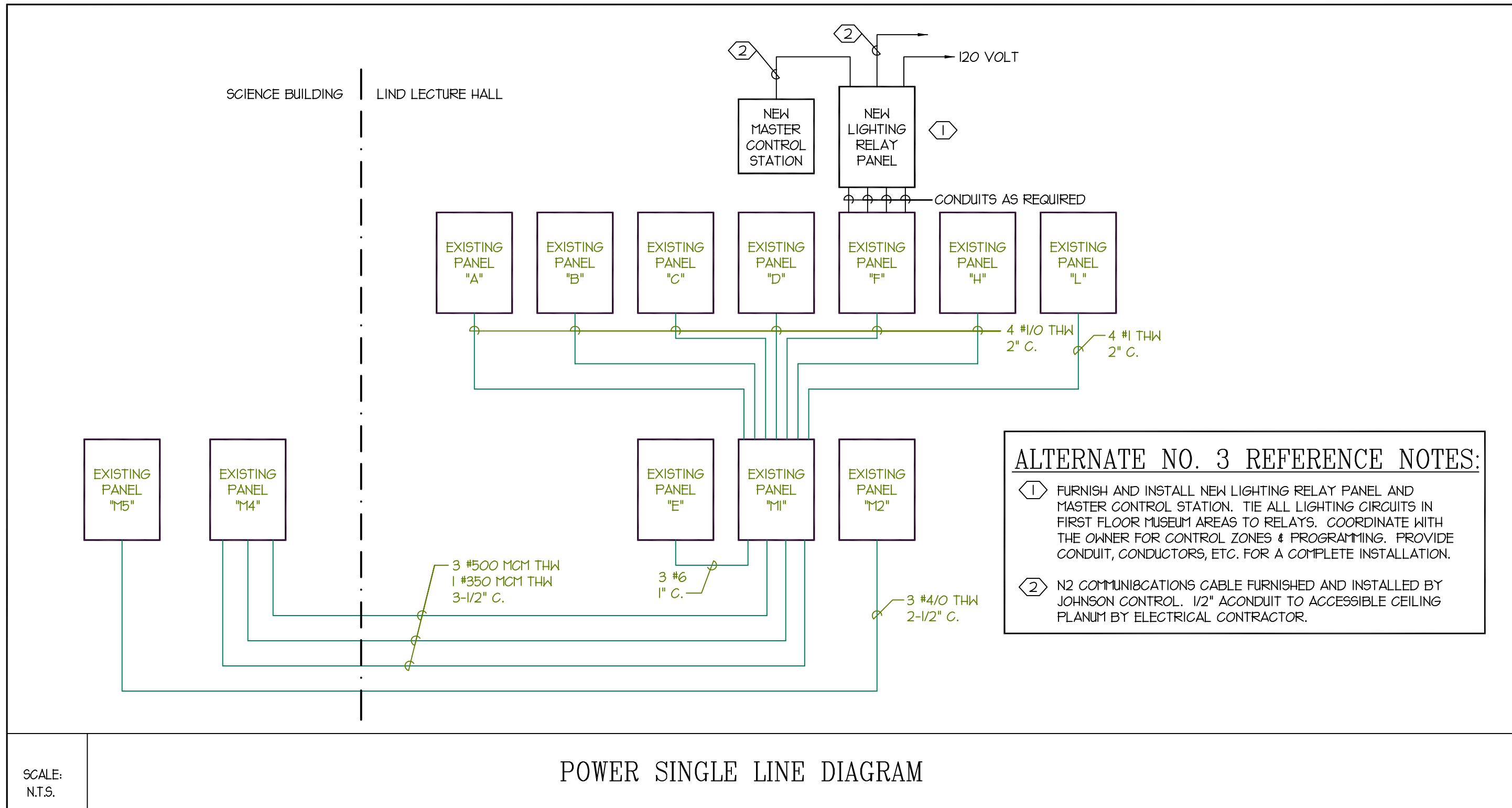
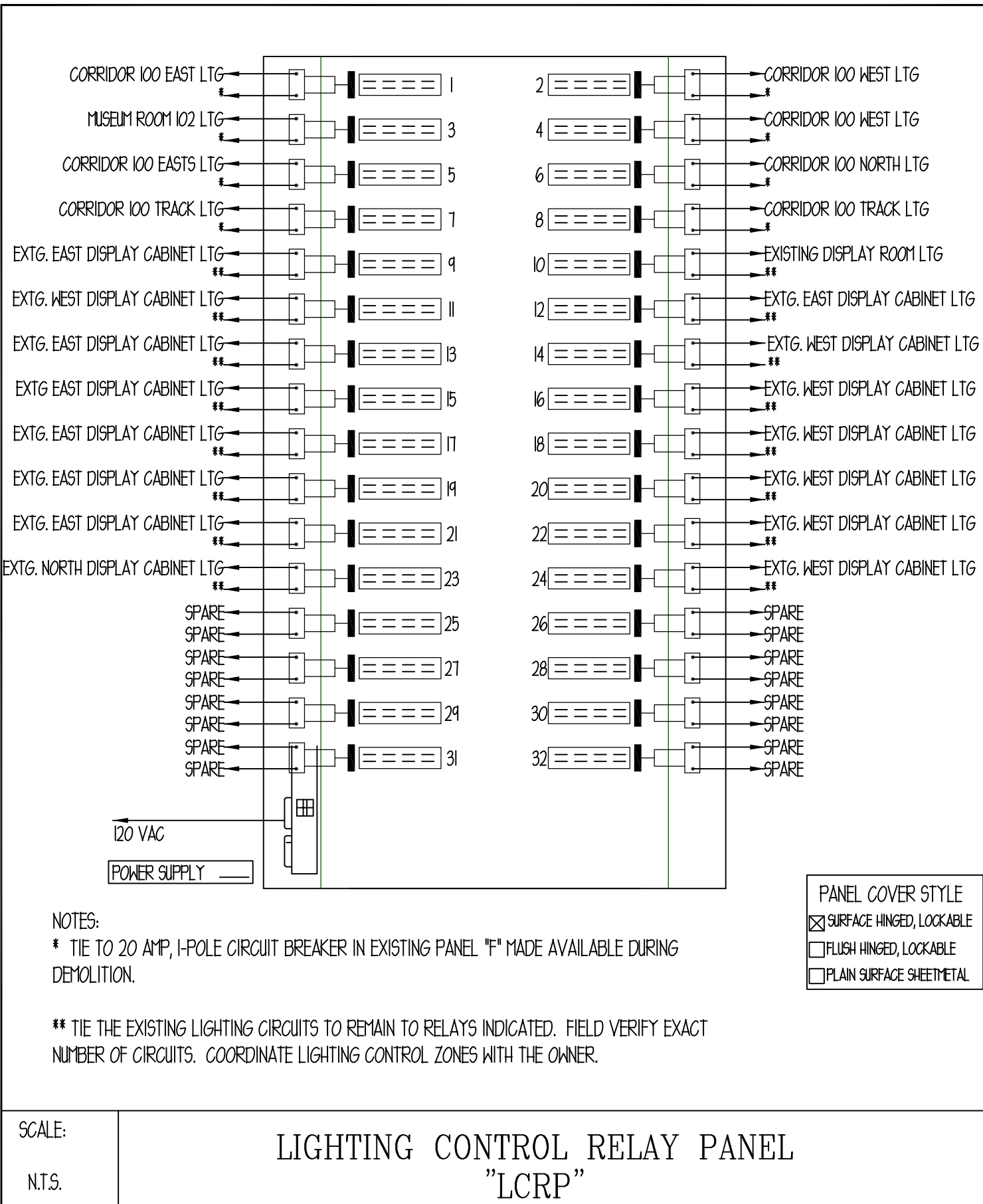
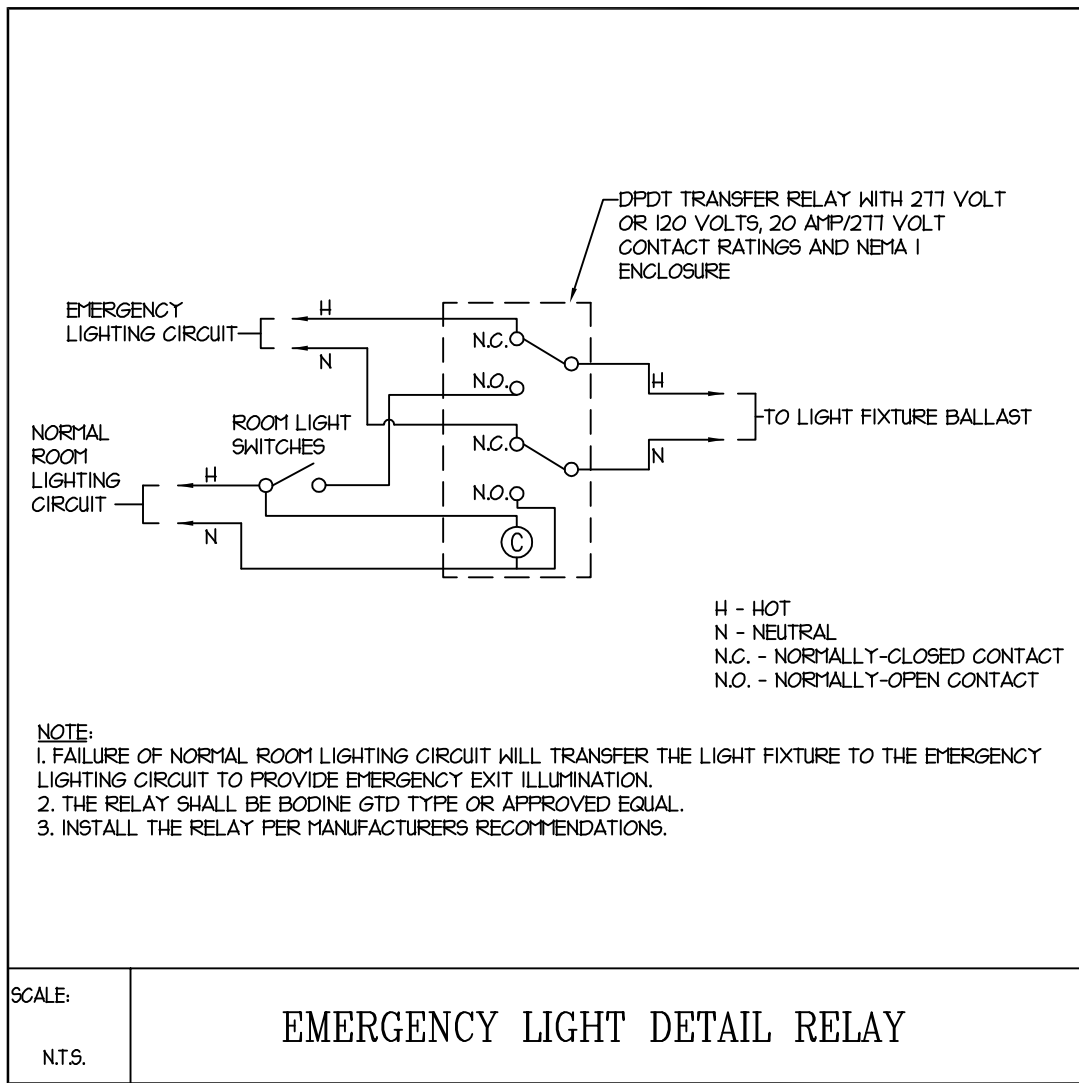
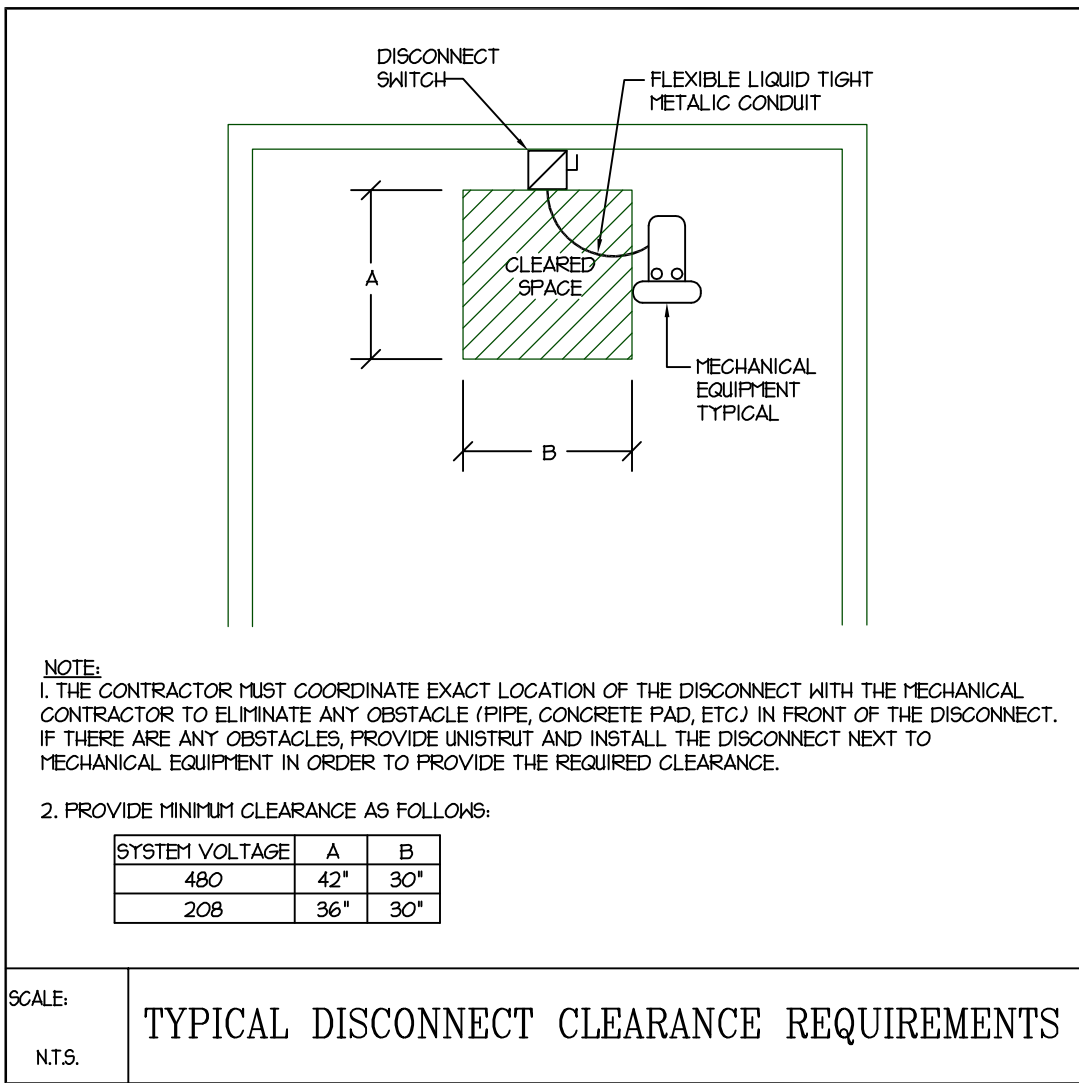
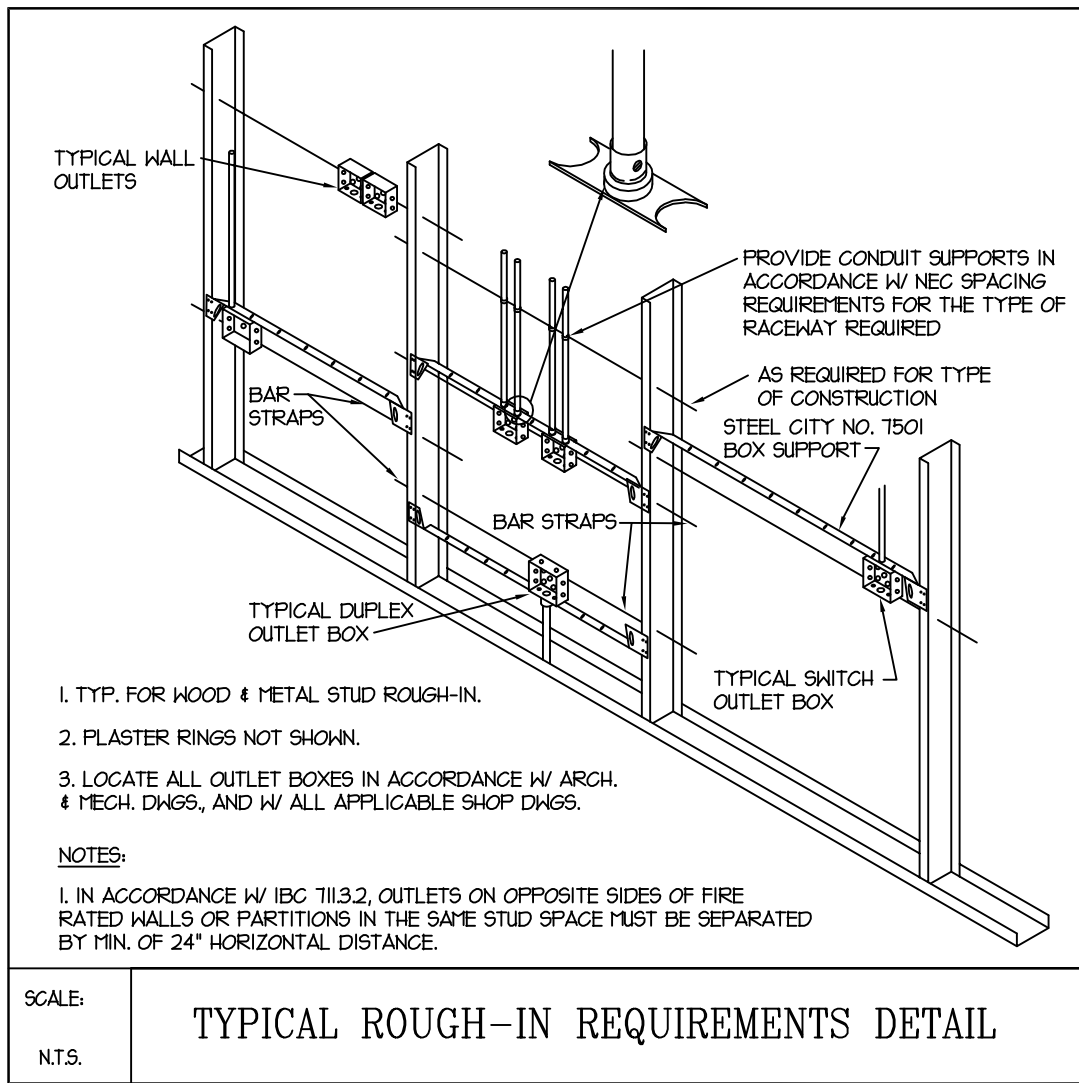
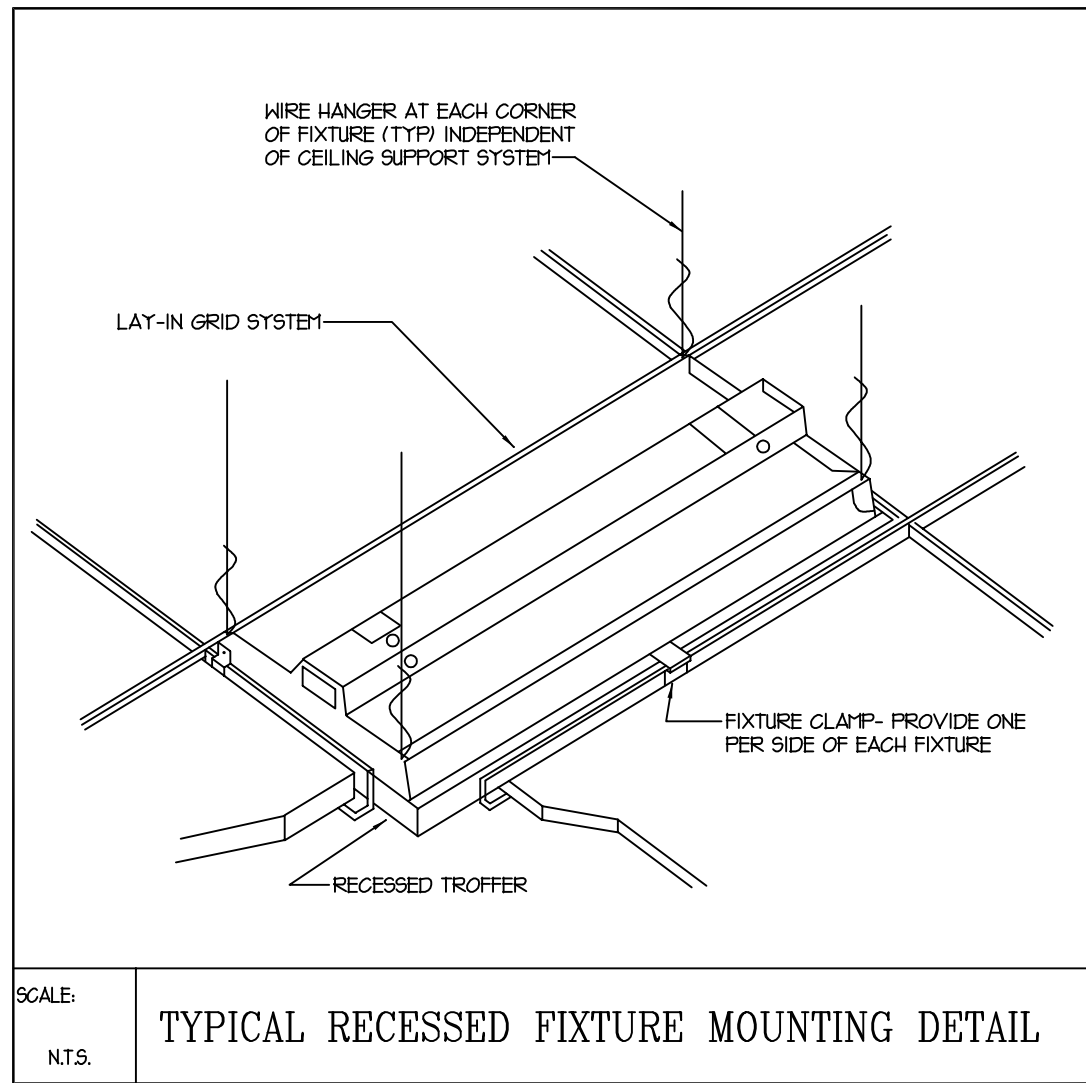
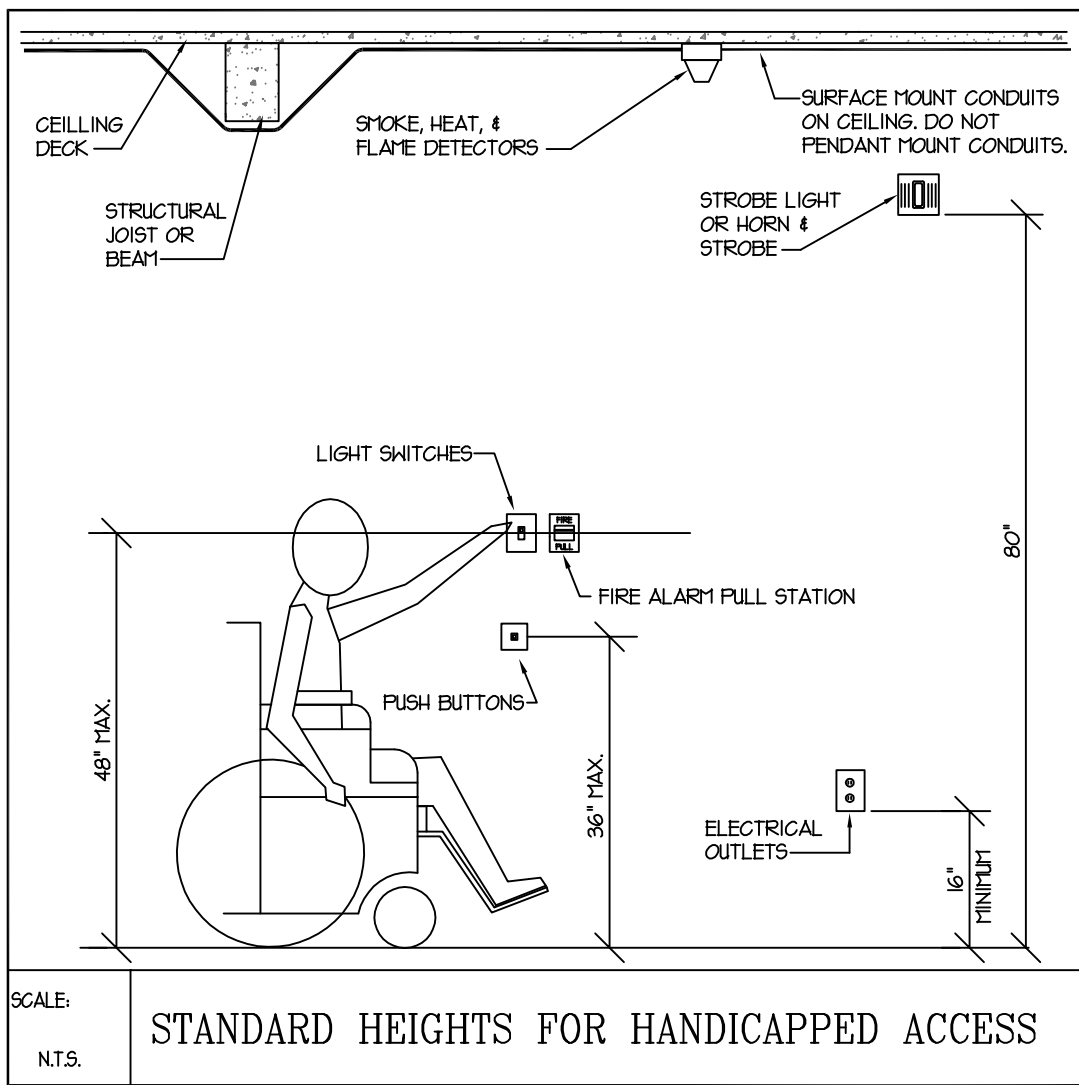
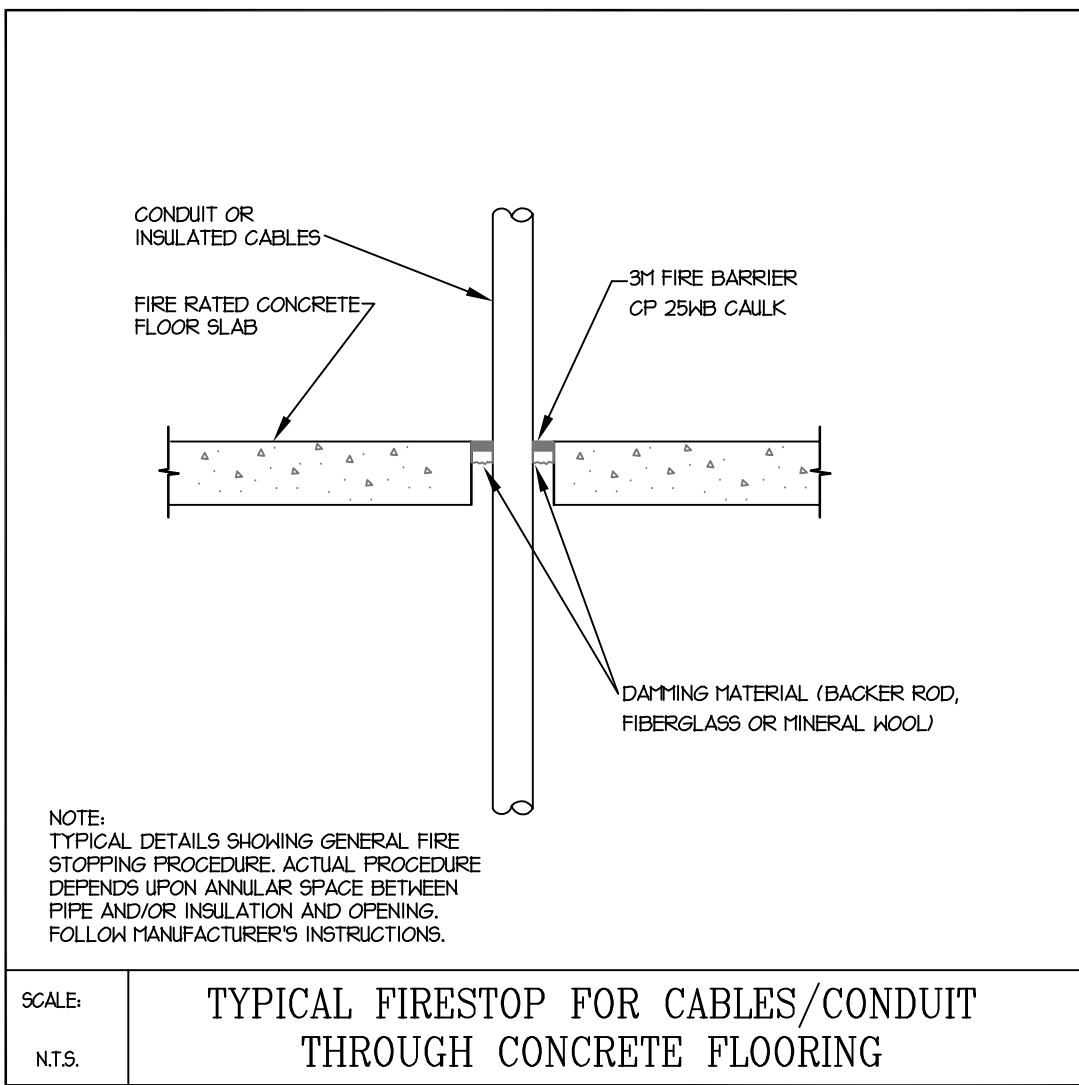
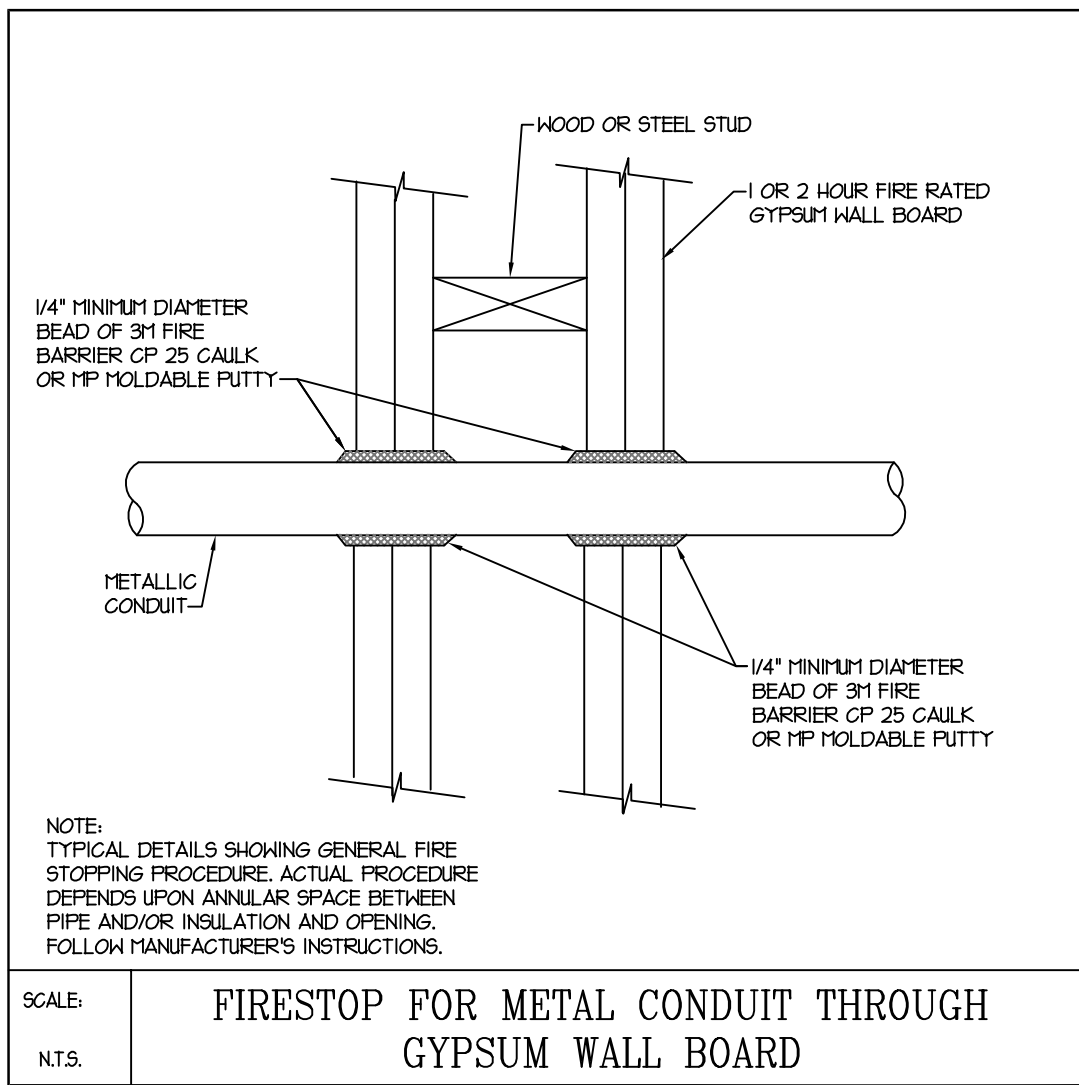
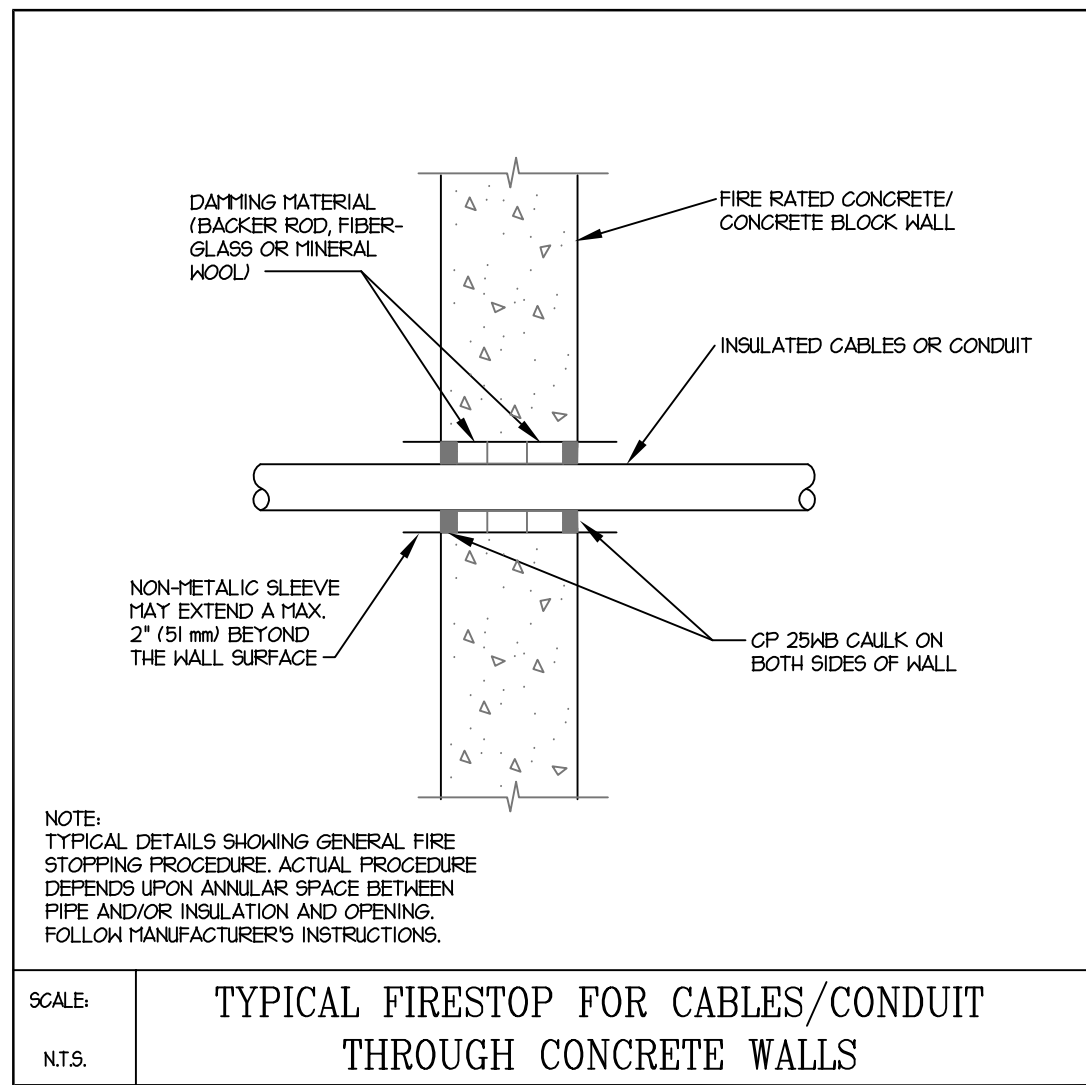
## GENERAL NOTES & SCHEDULES

CONSTRUCTION DOCUMENTS

SHEET NUMBER

EE001





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DFCM PROJECT NO. 04040810



MHTN PROJECT NO. 2005605 ECE PROJECT NO. 3021  
DRAWN BY: JHM CHECKED BY: AM

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| 1   | 3.24.08 | BID PACKAGE #1 |
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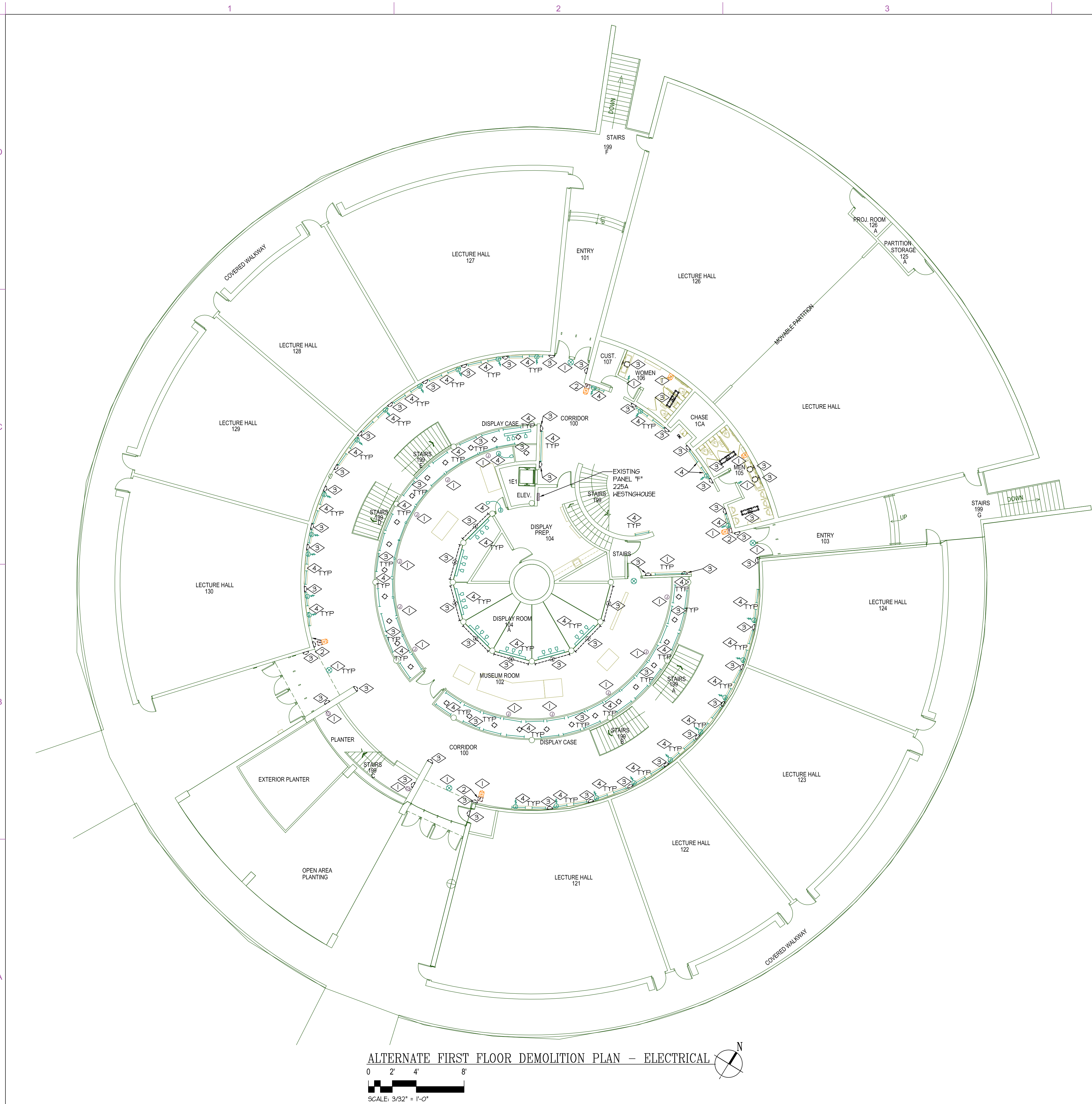
POWER SINGLE  
LINE DIAGRAM  
& DETAILS

CONSTRUCTION DOCUMENTS

SHEET NUMBER

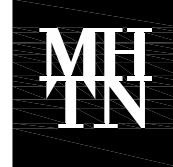
EE002





- REFERENCE NOTES:**
- EXISTING DEVICES SHALL REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
  - REMOVE THE EXISTING FIRE ALARM MANUAL PULL STATION AND REINSTALL AT 48" A.F.F. TRACE CIRCUIT BACK TO NEAREST REMAINING DEVICES AND FROM THERE EXTEND CONDUCTORS AND CONDUIT TO THE NEW LOCATION. DO NOT SPLICE FIRE ALARM CONDUCTORS.
  - REMOVE THE EXISTING LIGHT FIXTURES INDICATED. REMOVE CONDUCTORS ALL THE WAY BACK TO ORIGINATION POINT. UTILIZE EXISTING CONDUIT AND J-BOXES AS POSSIBLE FOR NEW INSTALLATION. REMOVE ANY ABANDONED CONDUIT. COORDINATE WORK WITH GENERAL CONTRACTOR.
  - RE-CIRCUIT THE EXISTING DISPLAY LIGHT FIXTURES THROUGH THE NEW LIGHTING RELAY PANEL. REFER TO SHEET EL101-ALT FOR MORE INFORMATION.

- GENERAL DEMOLITION NOTES:**
- AT THE END OF THE DEMOLITION PROJECT ELECTRICAL CONTRACTOR IS TO UPDATE PANEL IDENTIFICATION CARD FOR ALL THE PANELBOARDS WHICH HAVE HAD CIRCUITS MODIFIED UNDER THIS CONTRACT.
  - ELECTRICAL CONTRACTOR IS TO PROVIDE TEMPORARY LIGHTING AND POWER FOR OTHER TRADES DURING DEMOLITION WORK. UTILIZE EXISTING PANELBOARDS WHICH ARE TO REMAIN. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
  - ELECTRICAL CONTRACTOR IS TO REMOVE ALL ELECTRICAL CONNECTIONS AND CONTROL WIRING TO ALL THE EXISTING MECHANICAL EQUIPMENT IN THE REMODEL AREA, ETC. REMOVE ALL CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARDS. COORDINATE THIS WORK WITH MECHANICAL CONTRACTOR.
  - ELECTRICAL CONTRACTOR IS TO MAINTAIN POWER TO ALL DEVICES, EQUIPMENT, LIGHTS, ETC. IN OTHER PART OF THE BUILDING. TRACE ALL THESE CIRCUITS AND PROPERLY IDENTIFY IN PANEL SCHEDULES. COORDINATE THIS WORK WITH GENERAL CONTRACTOR AND CAMPUS ELECTRICAL SHOP.
  - ALL MATERIALS TO BE REMOVED FROM THE PREMISES BY THE CONTRACTOR.
  - IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED TO THE DEVICES WHICH ARE TO REMAIN MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT INTEGRITY IN THE SAME DAY.
  - ALL NEW WORK MUST MEET THE CURRENT NATIONAL ELECTRICAL CODE.
  - PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDED IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS.
  - ALL ABANDONED CONDUIT IN CONCRETE SLABS OR WALLS MUST BE CUT OFF AFTER CONDUCTORS HAVE BEEN REMOVED AND GROUND FLUSH WITH ADJACENT SURFACES. PATCH AND PAINT WALL AND SLABS TO MATCH. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR. PROVIDE BLANK COVERPLATES FOR J-BOXES IN CONCRETE OR BLOCK WALLS WHICH ARE NOT BEING USED.



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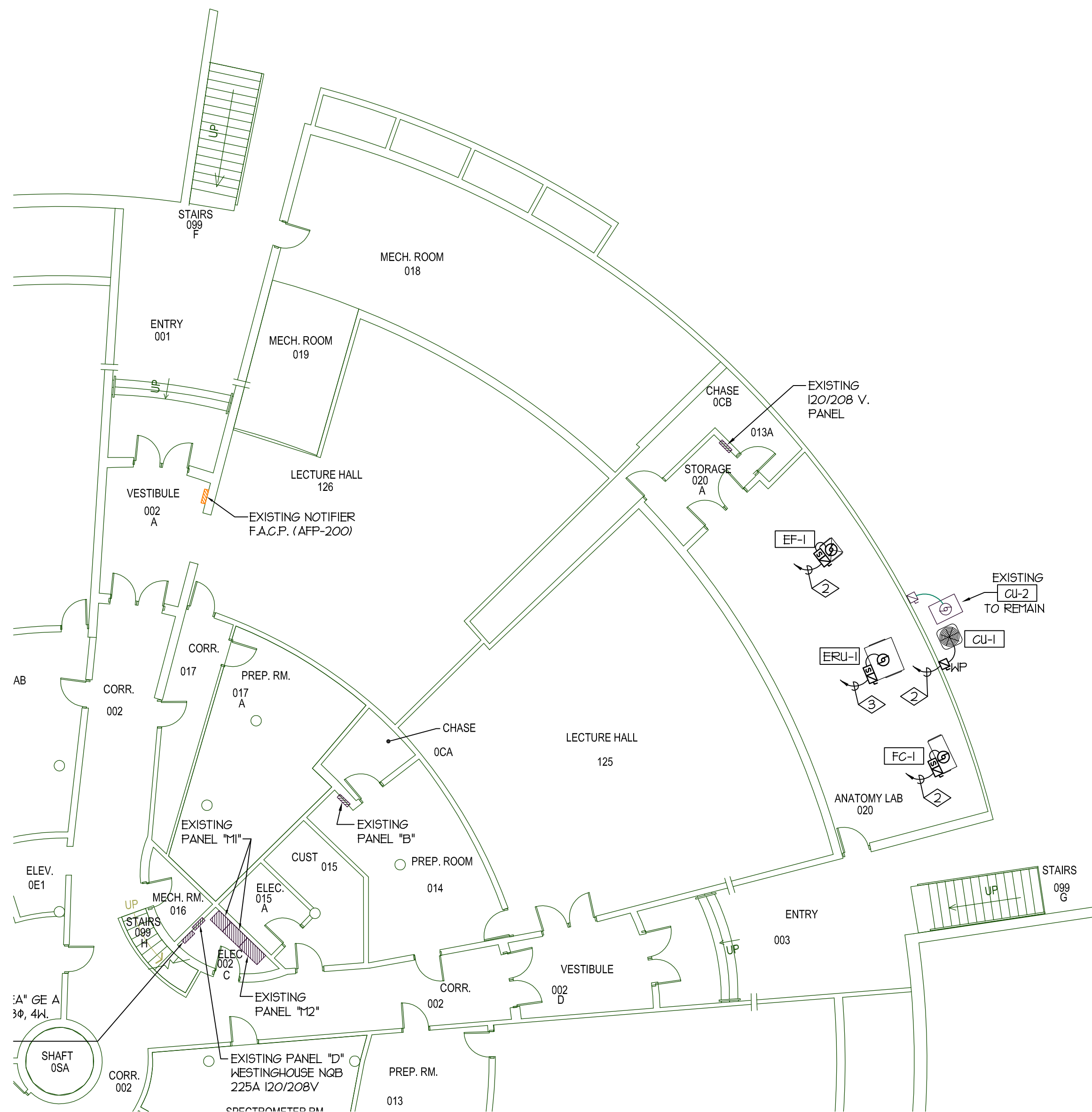
ALT. FIRST FLOOR  
DEMOLITION PLAN  
ELECTRICAL

CONSTRUCTION DOCUMENTS

SHEET NUMBER

DEE101-ALT

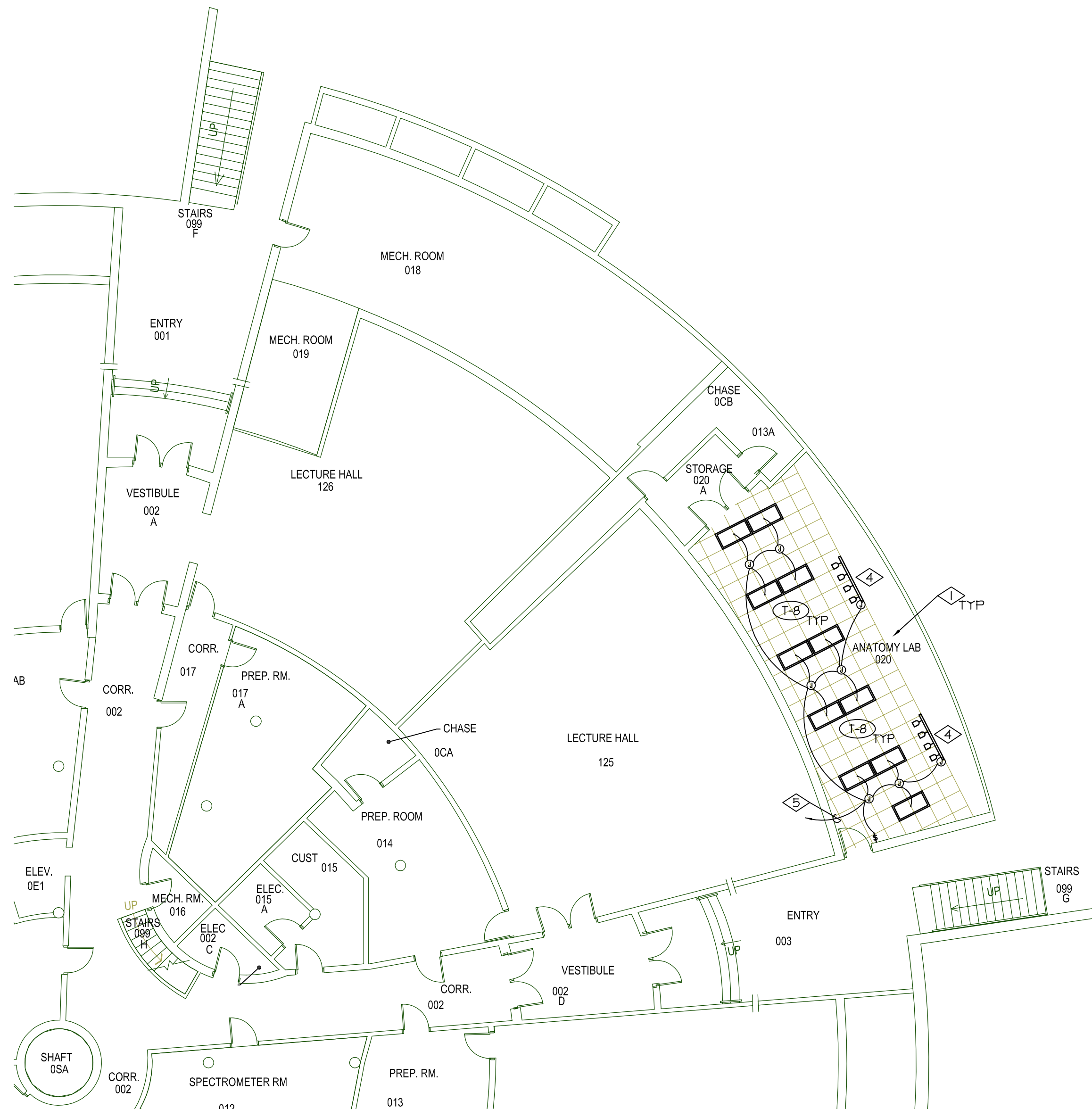




GROUND FLOOR PLAN - ELECTRICAL

0 2' 4' 8'

SCALE: 3/32" = 1'-0"



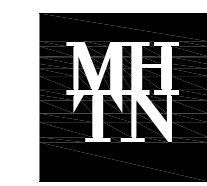
GROUND FLOOR PLAN - LIGHTING

0 2' 4' 8'

SCALE: 3/32" = 1'-0"

### REFERENCE NOTES:

- 1 REMOVE THE EXISTING TEMPORARY LIGHT FIXTURES AND LIGHT SWITCHES IN ANATOMY LAB 020. REMOVE EXISTING CONDUCTORS ALL THE WAY BACK TO THEIR ORIGIN POINTS. UTILIZE EXISTING CONDUIT AND J-BOXES AS POSSIBLE. REMOVE ANY ABANDONED CONDUIT.
- 2 TIE THE NEW MECHANICAL UNITS TO A NEW 25 AMP, 3-POLE CIRCUIT BREAKER INSTALLED IN EXISTING PANEL "H". REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.
- 3 TIE THE NEW MECHANICAL UNITS TO A NEW 40 AMP, 3-POLE CIRCUIT BREAKER INSTALLED IN EXISTING PANEL "H". PROVIDE MOUNTING HARDWARE AS REQUIRED. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.
- 4 INSTALL THE EXISTING LIGHT FIXTURES IN THE APPROXIMATE LOCATION SHOWN ON THE NEW CEILING. TIE TO THE EXISTING LIGHTING CIRCUIT.
- 5 TIE TO THE EXISTING LIGHTING CIRCUIT THROUGH NEW LIGHT SWITCH INSTALLED IN EXISTING LOCATION. PROVIDE CONDUIT, CONDUCTOR, J-BOXES, ETC. FOR A COMPLETE INSTALLATION.



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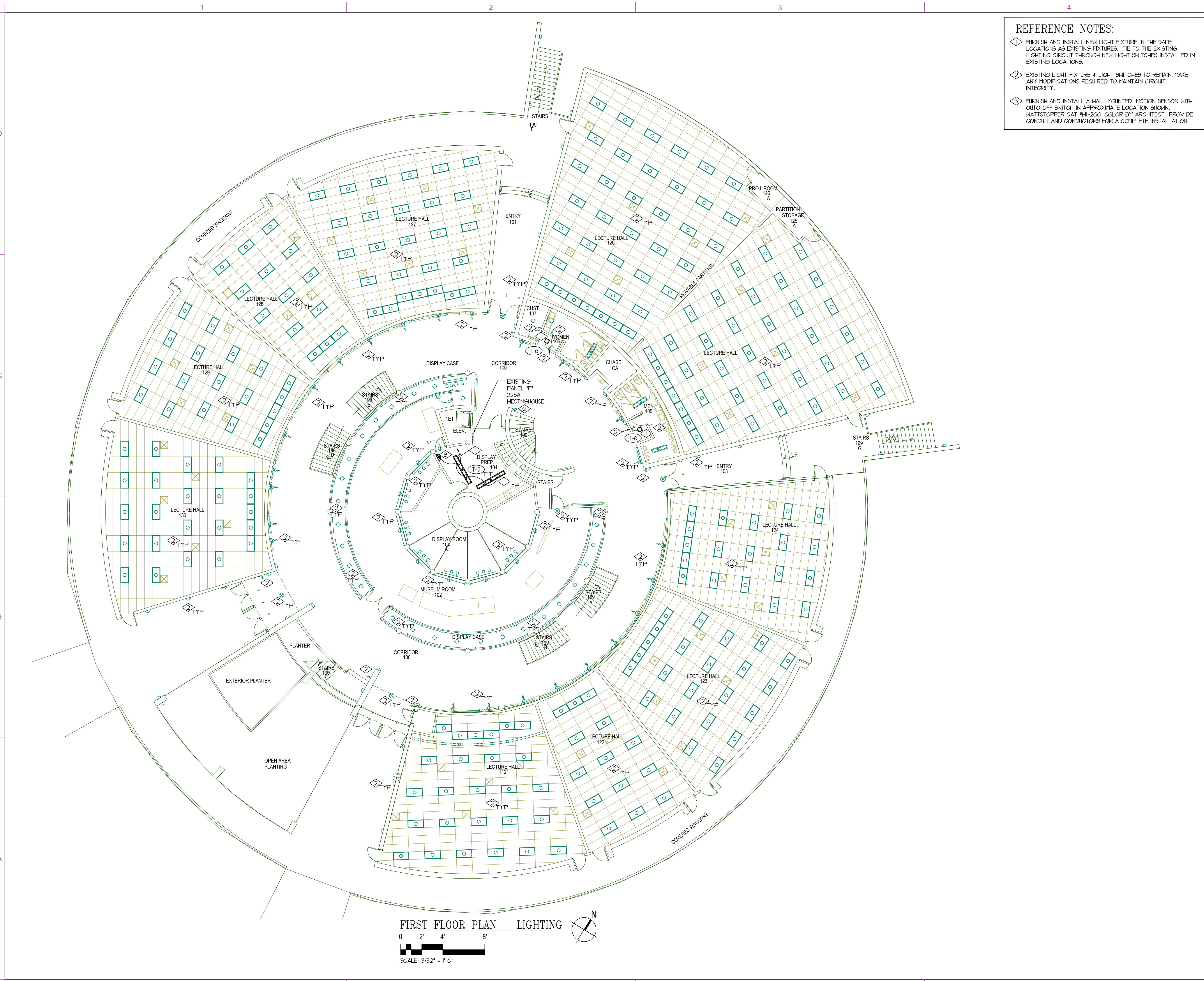
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### GROUND FLOOR PLAN - LIGHTING & ELECTRICAL

CONSTRUCTION DOCUMENTS  
SHEET NUMBER

EL100





- REFERENCE NOTES:
- 1 FURNISH AND INSTALL NEW LIGHT FIXTURE IN THE SAME LOCATIONS AS EXISTING FIXTURES. TIE TO THE EXISTING LIGHTING CIRCUIT THROUGH NEW LIGHT SWITCHES INSTALLED IN EXISTING LOCATIONS.
  - 2 EXISTING LIGHT FIXTURE & LIGHT SWITCHES TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
  - 3 FURNISH AND INSTALL A WALL MOUNTED MOTION SENSOR WITH AUTO-OFF SWITCH IN APPROXIMATE LOCATION SHOWN. WATTSTOPPER CAT #MI-200. COLOR BY ARCHITECT. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.

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FIRST  
FLOOR PLAN  
LIGHTING

CONSTRUCTION DOCUMENTS  
SHEET NUMBER

EL101



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## ALTERNATE FIRST FLOOR PLAN - LIGHTING

CONSTRUCTION DOCUMENTS

SHEET NUMBER

EL101-ALT

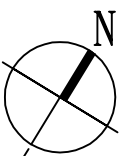
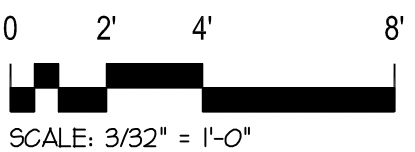
### REFERENCE NOTES:

- FURNISH AND INSTALL NEW LIGHT FIXTURES IN THE APPROXIMATE LOCATIONS SHOWN ON TOP OF EXISTING DISPLAY CABINET AND LIGHTING COVE SHELF.
- FURNISH AND INSTALL NEW WALL MOUNTED LIGHT FIXTURES ABOVE THE EXISTING DISPLAY CABINETS. PROVIDE NEW WIRE MOLD ACCESS 5000 FROM EXISTING J-BOX TO THE LIGHT FIXTURE.
- FURNISH AND INSTALL NEW WALL MOUNTED LIGHT FIXTURE IN THE APPROXIMATE LOCATION SHOWN. TIE TO AN EXISTING UNSWITCHED EMERGENCY CIRCUIT. UTILIZE NEW SURFACE MOUNTED WIREMOLD (ACCESS 5000 OR PRIOR APPROVED EQUAL COLOR BY ARCHITECT) FROM EXISTING J-BOX TO NEW LIGHT FIXTURE.
- FURNISH AND INSTALL NEW LIGHTING RELAY PANEL AND MASTER CONTROL STATION. TIE ALL LIGHTING CIRCUITS IN FIRST FLOOR MUSEUM AREAS TO NEW RELAYS. COORDINATE WITH THE OWNER FOR CONTROL ZONES & PROGRAMMING. PROVIDE CONDUIT, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. RELAY PANEL TO BE MANUFACTURED BY JOHNSON CONTROL TO COMPLY WITH CAMPUS STANDARD.
- FURNISH AND INSTALL RELAY IN EMERGENCY LIGHT FIXTURES DESIGNATED WITH LETTER 'E'. TIE THE RELAY TO AN UNSWITCHED EMERGENCY LIGHTING CIRCUIT AND THE SWITCHED CIRCUIT SUCH THAT WHEN COMMERCIAL POWER FAILS THE FIXTURES ARE ILLUMINATED REGARDLESS OF SWITCH POSITIONS. REFER TO DETAILS ON EEO02 FOR MORE INFORMATION.
- FURNISH AND INSTALL NEW LIGHT FIXTURES IN THE APPROXIMATE LOCATIONS SHOWN. TIE TO THE EXISTING LIGHTING CIRCUITS IN THE ROOM THROUGH THE NEW LIGHT SWITCHES.
- RE-CIRCUIT THE EXISTING DISPLAY CABINET AND DISPLAY ROOM LIGHTING CIRCUITS THROUGH NEW RELAYS IN THE NEW RELAY CONTROL PANEL. COORDINATE CONTROL ZONES WITH THE OWNER. FIELD VERIFY EXACT NUMBER OF CIRCUITS.
- TIE NEW LIGHT FIXTURES TO LIGHTING RELAY CIRCUITS INDICATED. REFER TO PANEL SCHEDULE FOR MORE INFORMATION.
- FURNISH AND INSTALL DUAL TECHNOLOGY ULTRASONIC OCCUPANCY SENSOR COMPLETE WITH POWER PACK IN APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE HT OR APPROVED EQUAL COLOR BY ARCHITECT. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.

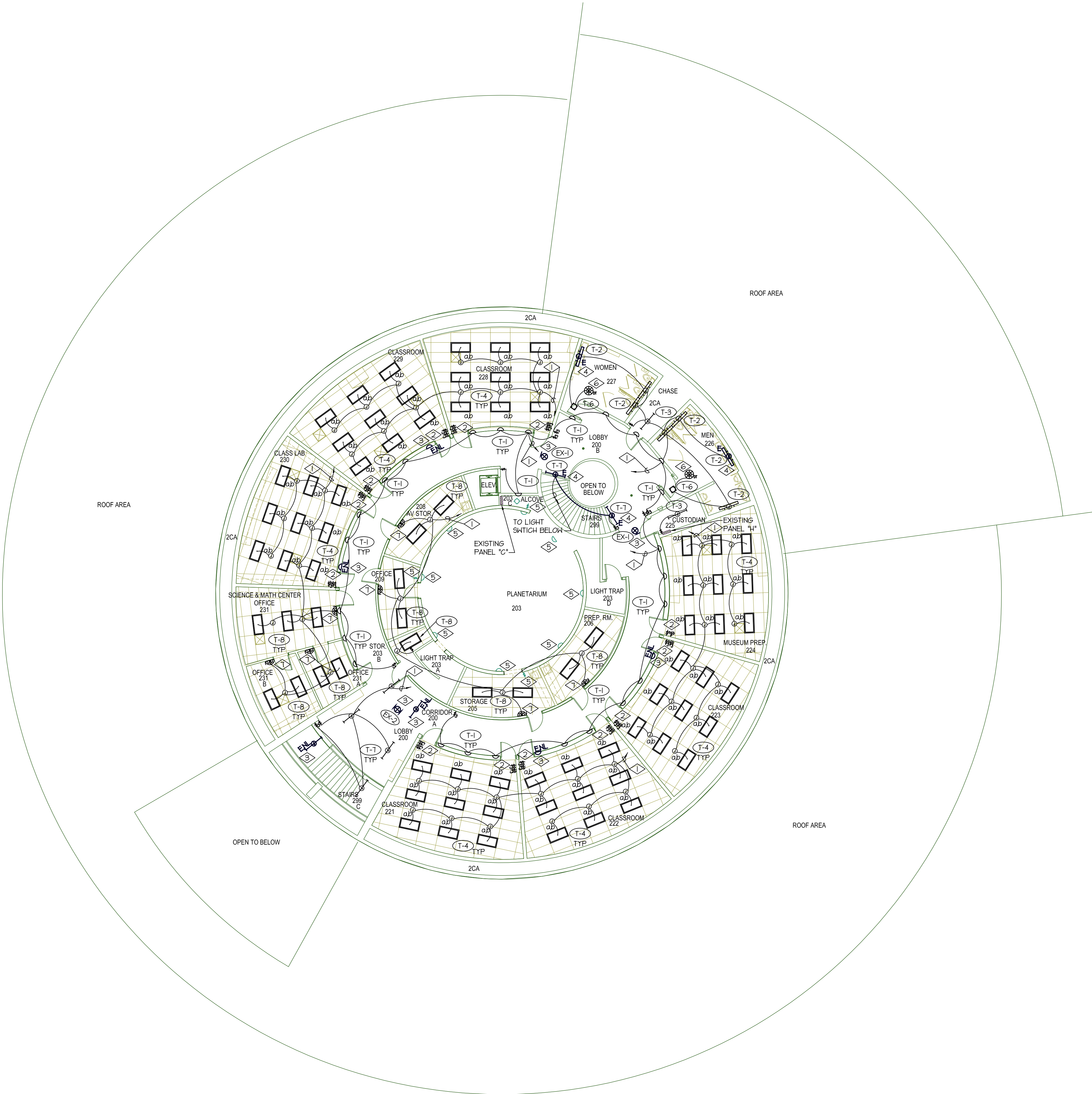
| ALTERNATE LIGHTING FIXTURE SCHEDULE |  |                 |   |
|-------------------------------------|--|-----------------|---|
| SYMBOL                              | DESCRIPTION  | LAMPS           | APPROVED MANUFACTURERS CATALOG NUMBER   |
| (T-2)                               | WALL MOUNTED FLUORESCENT UP & DOWN LIGHT FIXTURE WITH PERFORATED FASCIA PLATE. LENGTH AS SHOWN ON DRAWINGS.                            | (2) F032XP T-8  | PRUDENTIAL<br>WAL-14-P-2T8-*<br>FORUM<br>PRIGMA<br>LADA-C-0505-EX-L-WT-2<br>074408  |
| (T-4)                               | SURFACE MOUNTED COVE LIGHT FIXTURE WITH ASYMMETRIC REFLECTOR.  | (1) F054 T-5 HO | PRUDENTIAL<br>ALERA<br>CORELITE<br>LIGHTOLIER<br>SC-IT5HO-4'-XX-BPS<br>PIC-IT5HO-EBSPR120-*<br>CS-S-N-I-T5HO-I-C-UNV-4<br>CLJ4HO-120                                    |
| (T-10)                              | WALL MOUNTED COVE LIGHT FIXTURE. WHITE FINISHED HOUSING. ASYMMETRIC REFLECTOR.   | (1) F054 T-5 HO | PRUDENTIAL<br>LIGHT CONTROL<br>FORUM<br>ELECTRIX<br>WAL-14-P-IT5HO-*<br>WALD-34-H-T5HO-PFF-SCBA-LP/ELB-10W-120<br>LADA/DH-C-T-09H-EX-L-WT-2-ASY-UP<br>LL5-54-SH-E-46-HH |
| (T-11)                              | SURFACE MOUNTED TWO CIRCUIT TRACK WITH MOUNTING PEDISTALS RADIUS AS SHOWN ON DRAWINGS. TRACK LIGHT FIXTURE WITH T5W PAR 30 FLOOD LAMP. | 75 W PAR 30     | CON TECH<br>TECH LIGHTING<br>HALO<br>LIR244S-*<br>TECH TRACK 2 - 100TTBX300FS<br>LPX-AH5ERIES/LFI02CB30AH/LFIRI   |
| (T-12)                              | SAFETY AS T-4 EXCEPT GYPSBOARD CEILING MOUNTED, 1' X 4', SINGLE BALLAST  | (2) F032XP T-8  | LITHONIA<br>COLUMBIA<br>METALUX<br>SPB-F-232-A12125-120-GE/BIOPS<br>STB14-232F-FSA12125-EBBFRLLUNV<br>FCB232A125-UNV-ER81<br>SPSIFFSV1232/PSX                           |

- NOTES:
- ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLASTS, 10% TOTAL HARMONIC DISTORTION. UNIVERSAL, ADVANCE AND SYLVANIA ARE APPROVED MANUFACTURERS. BALLASTS TO HAVE 5 YEAR WARRANTY.
  - ALL FLUORESCENT LAMPS SHALL HAVE 4100° COLOR TEMPERATURE. PROVIDE PREMIUM T-8 LAMPS AND BALLASTS.
  - FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.
  - THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.

### FIRST FLOOR PLAN - LIGHTING







REFERENCE NOTES:

- 1. TIE TO AN EXISTING 20 AMP, 1-POLE LIGHTING CIRCUIT CIRCUIT BREAKER MADE AVAILABLE DURING DEMOLITION THROUGH THE NEW LIGHT SWITCHES SHOWN.
- 2. FURNISH AND INSTALL NEW LIGHT SWITCHES IN THE APPROXIMATE LOCATION SHOWN. LOWER CASE LETTERS INDICATE SWITCHING ZONES.
- 3. TIE THE EMERGENCY NIGHT LIGHT FIXTURES AND THE EXIT SIGNS TO AN EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT MADE AVAILABLE DURING DEMOLITION.
- 4. FURNISH AND INSTALL RELAY IN EMERGENCY LIGHT FIXTURES DESIGNATED WITH LETTER 'E'. TIE THE RELAY TO AN UNSWITCHED EMERGENCY LIGHTING CIRCUIT AND THE SWITCHED CIRCUIT SUCH THAT WHEN COMMERCIAL POWER FAILS THE FIXTURES ARE ILLUMINATED REGARDLESS OF SWITCH POSITIONS. REFER TO DETAILS ON EEO02 FOR MORE INFORMATION.
- 5. EXISTING LIGHT FIXTURES AND SWITCHES ARE TO REMAIN. MAKE MODIFICATIONS TO MAINTAIN CIRCUIT INTEGRITY.
- 6. FURNISH AND INSTALL DUAL TECHNOLOGY ULTRASONIC OCCUPANCY SENSOR COMPLETE WITH POWER PACK IN APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE HT OR APPROVED EQUAL. COLOR BY ARCHITECT. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
- 7. FURNISH AND INSTALL A WALL MOUNTED MOTION SENSOR WITH AUTO-OFF SWITCH IN APPROXIMATE LOCATION SHOWN. WATTSTOPPER CAT #W-200. COLOR BY ARCHITECT. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.



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WEBER STATE UNIVERSITY  
OGDEN CAMPUS OGDEN, UTAH  
UTAH STATE DIVISION OF  
FACILITIES CONSTRUCTION & MANAGEMENT  
DFCM PROJECT NO. 04040810



MHTN PROJECT NO. 2005605 ECE PROJECT NO. 3021  
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| 1       | 3.24.08 | BID PACKAGE #1 |
| 2       | 4.20.08 | BID PACKAGE #2 |
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SECOND FLOOR PLAN LIGHTING

CONSTRUCTION DOCUMENTS

SHEET NUMBER

EL102



REFERENCE NOTES:

◇ EXISTING OUTLETS TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.

◇ TIE NEW AUTOMATIC DOOR OPERATOR TO A SPARE 20 AMP, 1-POLE, CIRCUIT BREAKER IN NEAREST 120/208 VOLT EMERGENCY PANEL WITH AVAILABLE CAPACITY. TIE THE NEW PUSH BUTTON SWITCHES TO MOTOR OPERATOR PER MANUFACTURERS RECOMMENDATIONS. PROVIDE SURFACE MOUNTED WIRE MOLD AND SHALLOW J-BOXES AS REQUIRED.



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SEAL



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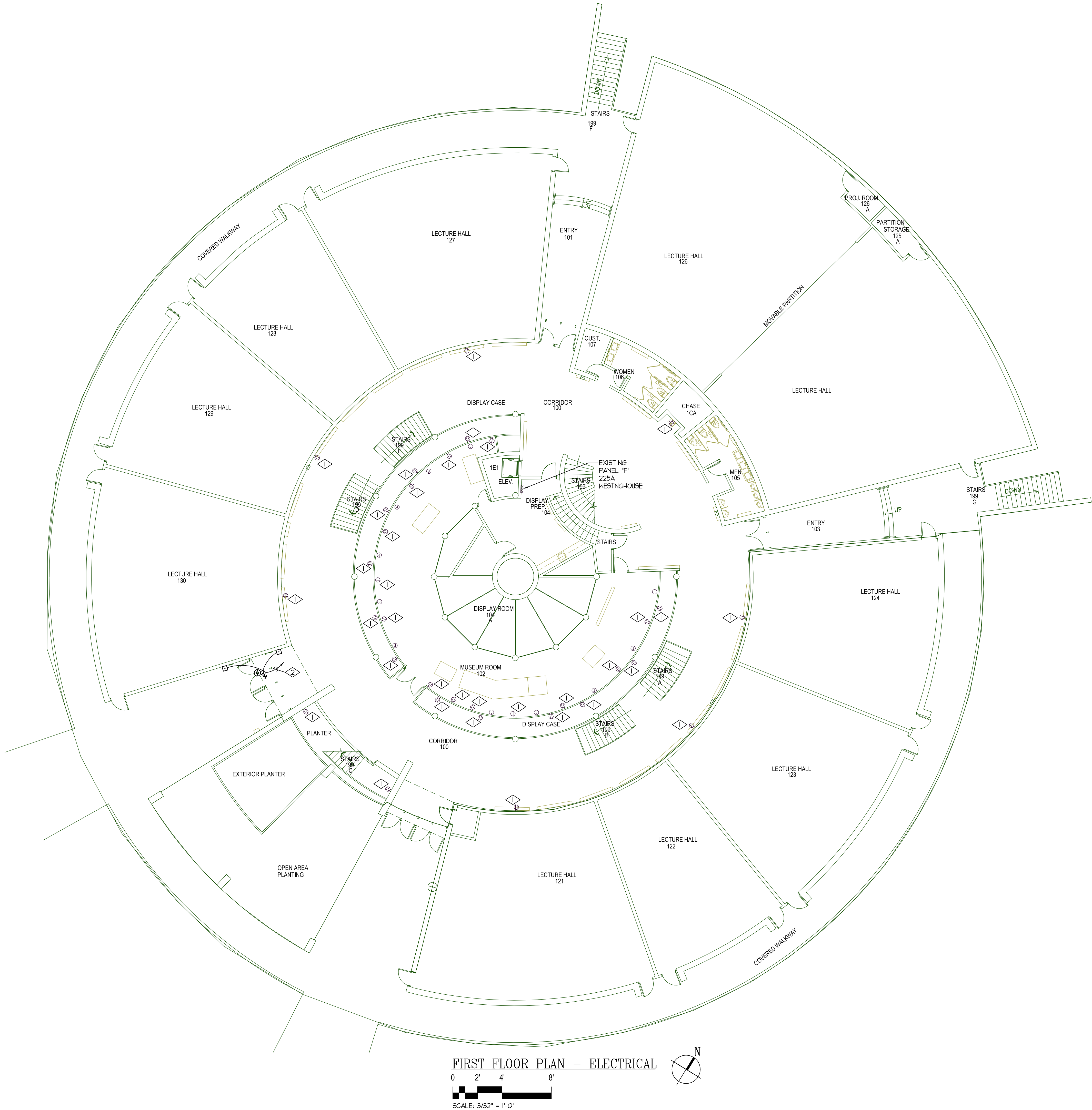
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FIRST  
FLOOR PLAN  
ELECTRICAL

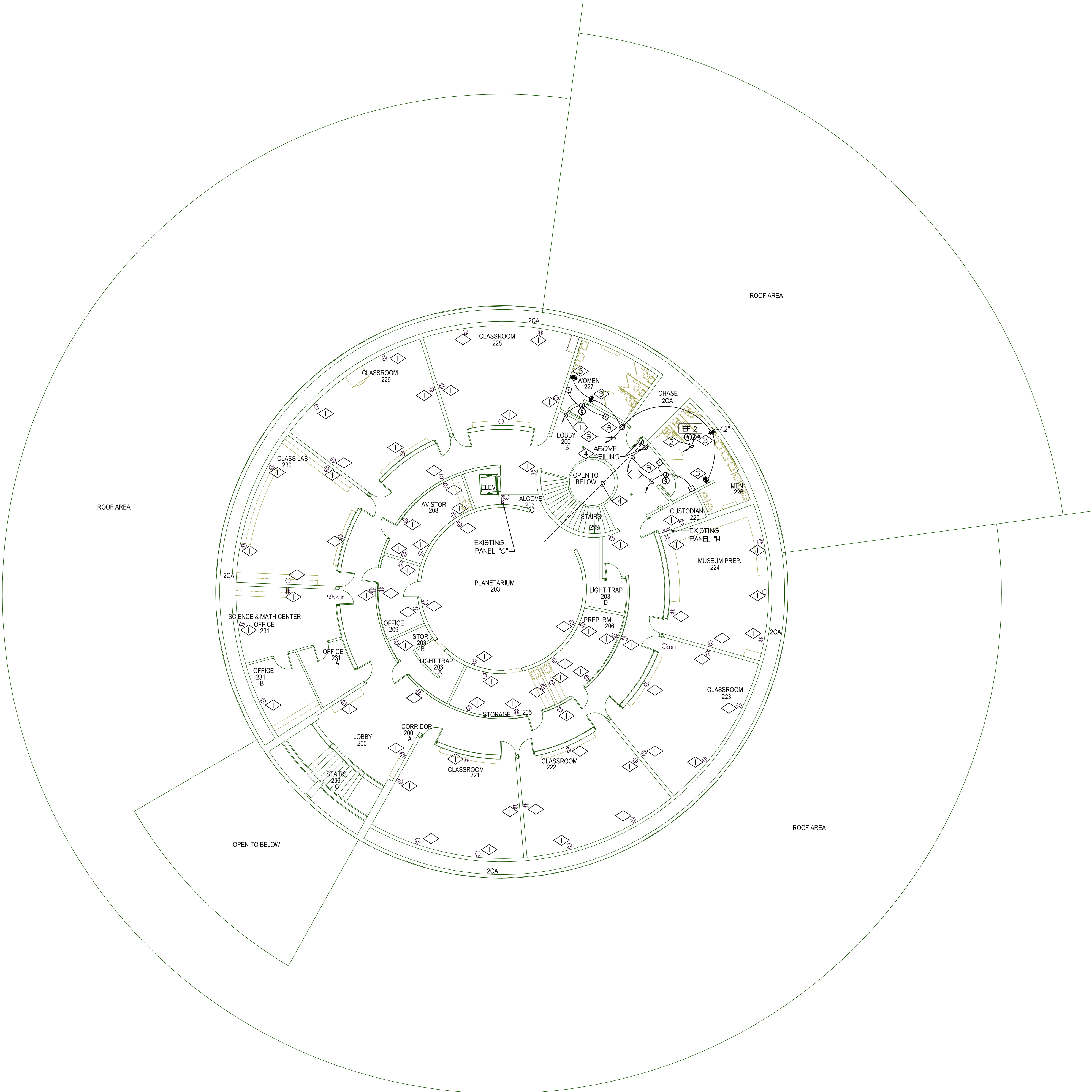
CONSTRUCTION DOCUMENTS  
SHEET NUMBER

EP101



FIRST FLOOR PLAN - ELECTRICAL  
0 2' 4' 8'  
SCALE: 3/32" = 1'-0"





- REFERENCE NOTES:**
- 1 EXISTING OUTLETS TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
  - 2 TIE THE NEW EXHAUST FAN TO A SPARE 20 AMP, 1-POLE CIRCUIT BREAKER IN NEAREST 120/208 VOLT PANEL WITH AVAILABLE CAPACITY. REFER TO TO MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.
  - 3 FURNISH AND INSTALL NEW OUTLETS IN THE APPROXIMATE LOCATION SHOWN. TIE TO A 20 AMP, 1-POLE CIRCUIT BREAKER IN NEAREST 120/208 PANEL WITH AVAILABLE CAPACITY.
  - 4 FURNISH AND INSTALL NEW J-BOX AND OUTLET ABOVE THE CEILING FOR FUTURE PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH IN. RUN A 2" CONDUIT FROM THE J-BOX INTO THE PLANETARIUM. COORDINATE STUB OUT LOCATION WITH THE OWNER. CORE DRILL THE WALL AS REQUIRED.

- ALTERNATE NO. 4 REFERENCE NOTES:**
- 1 TIE NEW AUTOMATIC DOOR OPERATOR TO A SPARE 20 AMP, 1-POLE, CIRCUIT BREAKER IN NEAREST 120/208 VOLT EMERGENCY PANEL WITH AVAILABLE CAPACITY. TIE THE NEW PUSH BUTTON SWITCHES TO MOTOR OPERATOR PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED.

SECOND FLOOR PLAN - ELECTRICAL

0 2' 4' 8'

SCALE: 3/32" = 1'-0"

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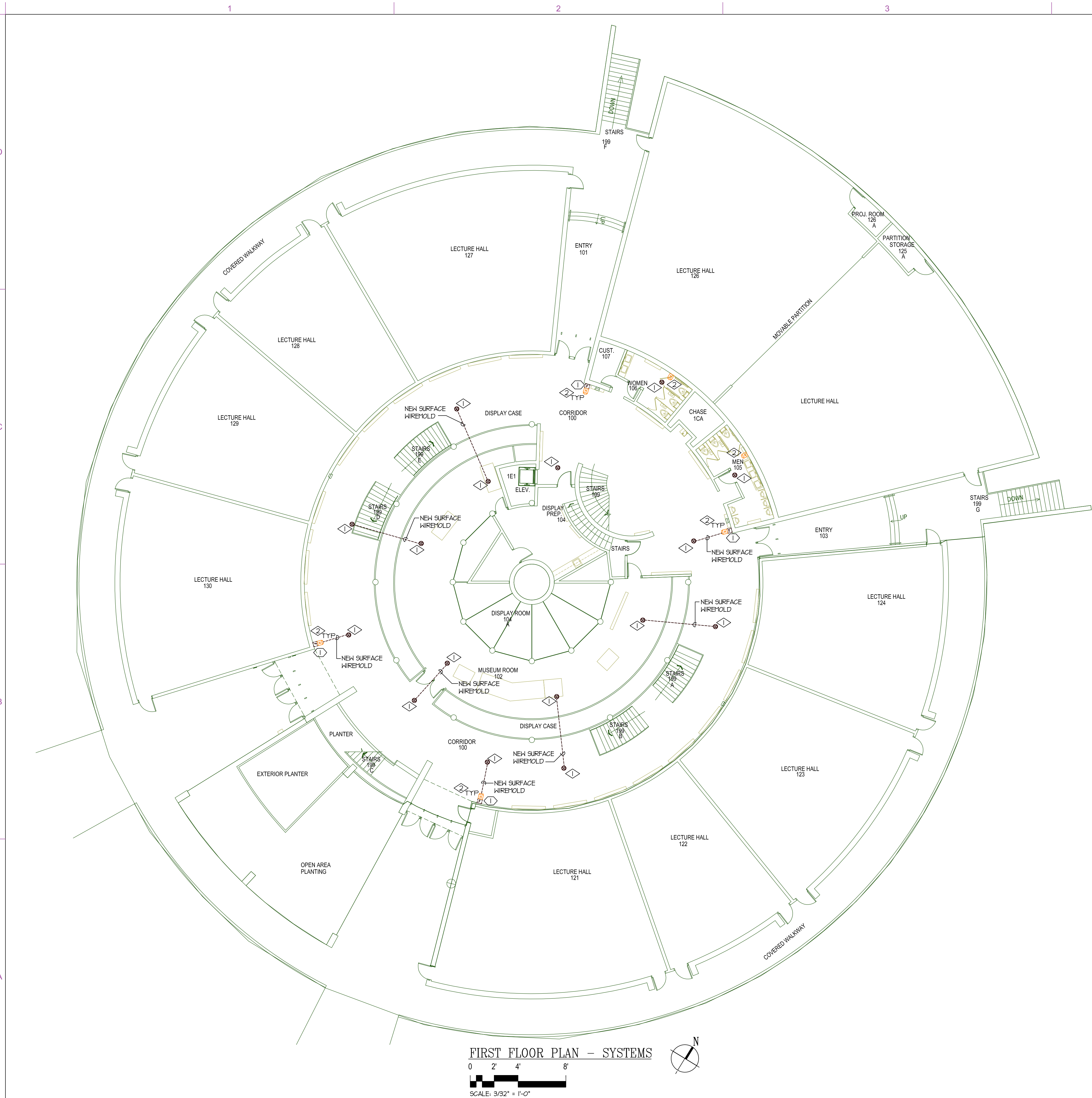
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SECOND  
FLOOR PLAN  
ELECTRICAL

CONSTRUCTION DOCUMENTS  
SHEET NUMBER

EP102





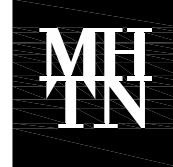
**REFERENCE NOTES:**

① INSTALL EXISTING SMOKE DETECTORS IN THE LOCATIONS SHOWN. EXTEND EXISTING FIRE ALARM LOOP TO THE NEW LOCATION. UTILIZE EXISTING CONDUIT AS POSSIBLE. PROVIDE SURFACE WIREMOLD, CONDUCTORS, ETC. COORDINATE THIS WORK WITH MOUNTAIN ALARM.

② EXISTING FIRE ALARM DEVICES SHALL REMAIN. MAKE ANY MODIFICATIONS TO MAINTAIN CIRCUIT INTEGRITY.

**ALTERNATE NO. 2 REFERENCE NOTES:**

① REMOVE THE EXISTING FIRE ALARM MANUAL PULL STATION AND REINSTALL AT 48" A.F.F. TRACE CIRCUIT BACK TO NEAREST REMAINING DEVICES AND FROM THERE EXTEND CONDUCTOR AND CONDUIT TO THE NEW LOCATION. DO NOT SPLICE FIRE ALARM CONDUCTORS.



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## FIRST FLOOR PLAN SYSTEMS

CONSTRUCTION DOCUMENTS

SHEET NUMBER

ES101





**REFERENCE NOTES:**

① INSTALL EXISTING SMOKE DETECTORS IN THE LOCATIONS SHOWN. EXTEND EXISTING FIRE ALARM LOOP TO THE NEW LOCATION. UTILIZE EXISTING CONDUIT AS POSSIBLE. PROVIDE SURFACE WIREMOLD, CONDUCTORS, ETC. COORDINATE THIS WORK WITH MOUNTAIN ALARM.

② EXISTING FIRE ALARM DEVICES SHALL REMAIN. MAKE ANY MODIFICATIONS TO MAINTAIN CIRCUIT INTEGRITY.

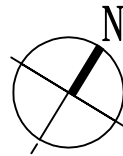
**ALTERNATE NO. 2 REFERENCE NOTES:**

① REMOVE THE EXISTING FIRE ALARM MANUAL PULL STATION AND REINSTALL AT 48" A.F.F. TRACE CIRCUIT BACK TO NEAREST REMAINING DEVICES AND FROM THERE EXTEND CONDUCTOR AND CONDUIT TO THE NEW LOCATION. DO NOT SPLICE FIRE ALARM CONDUCTORS.

SECOND FLOOR PLAN - SYSTEMS

0 2' 4' 8'

SCALE: 3/32" = 1'-0"



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## SECOND FLOOR PLAN SYSTEMS

CONSTRUCTION DOCUMENTS  
SHEET NUMBER

ES102